

Manufacturers Record

Reg. U. S. Pat. Office

EXPONENT OF AMERICA

Devoted to the Upbuilding of the Nation Through the Development
of the South and Southwest as the Nation's Greatest Material Asset

Vol. XCVI No. 4 }
Weekly. }

BALTIMORE, JULY 25, 1929.

{ Single Copies, 20 Cents.
\$6.50 a Year. }

Crop Production Growing Too Rapidly

FOR some years prior to 1892 there was a steady but gradual increase annually in production of farm crops in proportion to population. As this increase went on from year to year, there followed inevitably a great decrease in the price of crops. Wheat, for instance, sold one year at an average for the entire country of 49 cents; corn sold at 15 cents per bushel in the West and in many places was burned for fuel in place of wood or coal; and cotton sold at anywhere from 3 to 4 or 5 cents a pound. The depression was so universal that it resulted in a serious question on the part of many people as to whether agriculture could ever regain prosperity.

About 1892 or 1893 this situation reached its height so far as steady advance in production per capita is concerned and from that time on there was a gradual decrease in production per capita, small though it was, with population gaining on production. This change, however, was not generally understood or its inevitable result seen, and so in 1896 the free silver campaign was pushed with tremendous energy by William J. Bryan and others who believed and claimed that the depression in agriculture was due wholly to the demonetization of silver, whereas as a matter of fact it was mainly due to an increase in production per capita greater than the increase in population.

Another such period of agricultural production growing too rapidly has now been under way for some years. A study of the increase in acreage of wheat, corn and cotton illuminates the situation and shows how the present agricultural depression would have been inevitable, regardless of any effort that the Government might have made in behalf of agriculture. Any radical improvement in prices of farm products as a result of the work of the Farm Board will be impossible so long as the farmers of the country continue to increase their production more rapidly than consumption requirements demand. The Farm Board may be able to furnish some relief and help the farmers to market their crops better, primarily, the fundamental trouble is overproduction as compared with consumption. As this situation righted itself after 1892 and 1893 by the gradual lessening of production per capita, so we may naturally look for a righting of the situation gradually, helped of course by the aid of the Farm Board.

Notwithstanding the heavy movement of population away from farms to the cities, farm acreage continues to increase rapidly due to the modern power machinery now available for farmers. In 1910 the total farm crop acreage of the country was 311,195,000. By 1927 this had advanced to 357,-

412,000 acres, and by 1928 to 375,950,000 acres. Here is a gain in 18 years of 64,000,000 acres, and a gain even in one year of 18,000,000 acres.

This increase is especially remarkable in view of the fact that the automobile has so lessened the number of farm horses that millions of acres, estimated by some experts as high as 15,000,000, formerly devoted to growing feedstuffs for horses and mules are no longer required for that purpose.

Taking up the increase in cotton acreage, it is easily seen how that has increased too rapidly for the good of the cotton grower. The three-year average of cotton acreage, 1910 to 1912, was 34,240,000. This steadily advanced to 41,360,000 acres in 1924, to 46,053,000 acres in 1925, and to 47,087,000 in 1926, a three-year average of 44,833,000 acres.

In 1927 there was a decrease, but in 1928 acreage figures again jumped to 45,341,000, and the acreage for this year is even larger. The average acreage for three years, 1926-1928, was 44,188,000, or an average of practically 10,000,000 acres above the average of 1910-1912.

The official record of the Bureau of Agricultural Economics takes the ground that agricultural production is still increasing at a more rapid rate than the rate of increase in population. Dr. O. E. Baker, economist of the Division of Land Economics, in discussing this subject recently, said:

"Overexpansion of the country's crop area is one of the fundamental causes of the present agricultural depression, but excessive stimulation of agricultural settlement during the last half century was more or less excusable, for no one could have foreseen the coming of the automobile and the tractor which have released a large amount of land formerly required to feed horses and mules, nor the increase in the production of milk and meat; nor did anyone realize the influence of shifts from less productive to more productive crops to the acre."

Dr. Baker believes the tendency will be to bring more land into use for crops than is needed, and that unless agricultural settlement is prudently guided there is grave danger that periods of agricultural depression will occur.

Wayne Dinsmore, secretary of the Horse Association of America, in the Breeders Gazette recently emphasized some of the facts upon which we have commented, under the heading "The World Has Gone Wheat Mad." "Since 1910 the population of the United States," he writes, "has grown from 91,972,000 to 120,379,000, and the world's population from 1,605,000,000 to 1,799,000,000, while during that period there has been a steady increase in grain production and a tendency to a decrease in livestock production." In 1910 this country had 61,803,000 head of cattle on farms. By January 1, 1929, the number had fallen to 55,751,000. In the same period the number of sheep had declined from 52,447,000 to 47,171,000, and the number of hogs on farms from 58,185,000 to 54,956,000. In other words, while the population of the United States had increased by 30 per cent, cattle, sheep and

swine had all showed heavy decreases. At the same time, however, grain yields moved steadily upwards. In 1910 we harvested from 45,681,000 acres of wheat 635,121,000 bushels, while in 1928 from 57,724,000 acres in wheat we had a production of 902,749,000 bushels. The combined production of five leading grains—wheat, rye, barley, oats and corn—due to an increase in acreage of over 9,000,000 acres, increased from a production of 4,916,461,000 bushels to 5,590,873,000 bushels in 1928, and the same tendency to increase grain production is reported as manifest throughout the world, the wheat production of 1928, for instance, being practically 800,000,000 bushels over the average for the five-year period of 1909-1913. Barley, oats and corn also made a heavy world increase.

Mr. Dinsmore takes the ground that the talk of controlling production or price of grain is as impractical as to talk of stopping the tides of the ocean. Increased prices would bring increased production. He claims that the only thing outside of acts of nature over which man has no control, which would bring about a decreased production would be lowering of prices.

In studying the question of agricultural depression and of the possibilities of agricultural betterment, these facts must be taken into consideration.

A FEW MORE McCLURES NEEDED

THE conversion of the cool summers and mild winters, fresh water and green grass of western North Carolina into 40 cars of poultry and 2960 cases of eggs, paying to the farmers a total of nearly \$207,000 in four months, is credited by the Charlotte Observer largely to James McClure, "in organizing farm federations and cooperative marketing associations." Apparently, Mr. McClure has done better than the man who "can make two blades grow where one grew before." The Observer adds:

"McClure has been diligent in development of general farm crops, including sweet potatoes, and efficient methods in marketing these products, and he now has turned his activities in the direction of raising beef cattle in the mountains, where thousands of acres with clear waters running by and grass going to waste invite habitation by cattle. McClure has realized that western North Carolina is a natural breeding ground for cattle and his determination to fill the meadows and hillsides is undoubtedly headed for realization in the course of a few years, for he has never yet failed in any of his agricultural enterprises. The big thing he is now carrying forward however is the marketing of the egg."

Incidentally, it may be remarked that the institution of a protective tariff on hides and leather may well prove encouraging to Mr. McClure in his cattle-promoting activities.

In the egg market, the Farmers Federation supply sold at from four to 10 cents more than eggs ever brought before for that section, and also the farmers showed business acumen by selling the surplus crop in local markets, instead of shipping it to great centers and so depressing prices. And, says Mr. McClure, "if we can get more production, we can market the eggs to still better advantage; if we can raise the production to the point where we can get a car a day, we will run express cars to New York."

This is more than "farm relief." It is concrete, constructive, practical farm development. Indeed, in its way, the greatest value in this achievement is in making the farmer a business man. There is no industrialist who has potentially a finer business than the farmer; but not being a business man he has given his business into other hands, which have used his business for their own profit almost exclusively.

Well may the Observer conclude its comment: "All the State needs is a few more McClures."

AGRICULTURE MAY EXPECT THE BENEFITS OF GREATLY ENLARGED FEDERAL RESEARCH

FARM relief of a sort that will aid farmers without doing much for the politicians is forecast by Henry M. Hyde, Secretary of Agriculture, in the current Country Gentleman. Secretary Hyde says:

"For the last decade or more the Department of Agriculture has emphasized the economic side of agriculture. With the enactment of the farm bill the Federal Farm Board will deal primarily with the economics of agriculture aided, of course, by the present resources of the Department of Agriculture. To a larger extent, the attention of this administration will be directed to strengthening and fostering basic research. We hope thereby to give the American farmer directly and quickly all that the highly organized divisions of modern science can devise for his benefit, and at the same time study more closely the natural laws pertaining to living forms."

Pointing out that agricultural research "has in no wise kept pace with the amply financed" research of industry, the Secretary described some of the difficulties the Department of Agriculture has encountered in its efforts to broaden and improve its research work. The technical men of the Department have not been allowed to make their programs, but have been required to explain them in detail to the Budget Bureau Committee and to the appropriations committees of the Congress. But the objective to be attained by any program of fundamental research is always shrouded in doubt. One can imagine the scientists saying, "We want \$250,000 for this research, but we don't know what we will find. We can't even guarantee to find anything," to which the dispensers of public funds may be heard to reply, "We can't very well pour tax money into that sort of a hole. We must know where this money is going and what the taxpayers may expect in return."

But the fact is that some of our greatest corporations have amassed millions in profits from money poured into just such holes. The returns from fundamental research are usually far in the future, but where multiplied by the mass production of a great manufacturing corporation—or by the immense farm production—the profits, if the research has been well conceived and wisely guided, are huge.

The first requisite of success in such a campaign is a director of research endowed with the rare combination of qualities—scientific ability, vision, good practical judgment, great patience and perseverance, the ability to select the right assistants and to coordinate their efforts. The second requisite is plenty of money.

Secretary Hyde suggests the plans of the administration for getting results for the farmers through fundamental research. "Much stress," he says, "should be placed on assembling the most brilliantly imaginative group of men available and creating conditions under which their full ability can be exercised." Second, "A lump sum appropriated for fundamental research, available until expended, would solve this difficulty."

From these remarks we may safely infer that this administration is going to throw the full force of its influence into an effort, first, to change the present system so as to provide a lump sum for research, to the end that scientists will no longer have to try in vain to explain their plans to men unable to understand their language; and second, that it will back to the limit a program to strengthen the personnel of the research staff and then give that personnel a clear field. As Secretary Hyde well says:

"Agriculture is entitled to a research institution in keeping with its fifty-billion-dollar investment in farm lands and equipment. Such an institution, properly financed and adequately manned, could confidently be expected to contribute as largely to agricultural progress as similar research has done in industrial fields."

A Critical Moment for Flood Control

MAJOR GENERAL EDGAR JADWIN, chief of the Corps of Engineers of the United States Army, will be retired by age limit on August 7, and Mr. Hoover is reported to be scanning the list of eligibles in search of a successor.

The principal duty of the next Chief of Engineers will be the execution of some plan for controlling the floods of the Mississippi River system. Without doubt this is the greatest engineering task ever undertaken on this continent. None other has involved a resource of such huge potential value as the waters of the many rivers making up that system; none has been flung over so immense an area or has affected so vitally the lives and fortunes of as many people; and none has involved so great an expenditure. Its nearest rival was the Panama Canal, and this is dwarfed in every aspect by the present problem. The execution alone of the plan adopted will be a huge task. The framing of an adequate plan is greater, for it involves not only the intricate and widely diverse engineering problems that will run through the execution of the work, but it includes also the formulation of national public policies of profound and far-reaching consequence. It is this matter of determining the plan to be adopted that now hangs in the balance.

The so-called Jadwin plan for controlling the floods of the Mississippi has been severely criticised by engineers of the highest standing. It is on trial and may be discarded. John F. Stevens, a man of world wide reputation, has said that:

"I spent two months in Washington during the session of the last Congress which enacted the flood legislation, under which authority work along the Mississippi River is now proceeding. How that Congress could have enacted such legislation is incomprehensible.

"It was plainly shown that, after 50 years of playing with that mighty stream, neither the Mississippi River Commission nor any other body of individuals had secured the necessary data upon which any intelligent, comprehensive plan to curb its floods or to turn its vast potential power to the use and benefit of our people could be formulated.

"In conclusion, I believe that the whole matter of the control of the Mississippi River is still an open question and live issue. It is one that affects the people of the whole nation, and more especially the member of the engineering fraternity, whose reputation and standing is at stake. How and by whom the matter shall be opened up is a question which should be decided and acted upon with as little delay as possible."

And the American Engineering Council has described the plan as "hastily prepared and based on inadequate data."

Mr. Stevens raised a question as to how or by whom the question should be opened up; the Engineering Council urged that Mr. Hoover himself reopen it by appointing a board of able civilian engineers. But Mr. Hoover is evidently in doubt as to his right to seek directly to change any plan the Congress has enacted into law and the former President has approved, for he has asked the Attorney General for an opinion as to the legality of such action. That opinion, like the President's appointment of a Chief of Engineers, is pending as this is written, and both are likely to be announced at any time.

Mr. Hoover has very carefully refrained from expressing any opinion of the Jadwin plan, but men close to him have inferred that he is not heartily in favor of it. What his own

plans may be are still his own well-guarded secret, but much will be determined by the two pending announcements.

Should the Attorney General decide that Mr. Hoover has no power to bring about a review and a change of the Jadwin plan, the only course open to Jadwin's opponents will be to seek action by Congress. But what Congress may do in this matter will be largely determined by Mr. Hoover's discreetly-revealed opinion, for his ability as an engineer is too great and too well known to go unsought by the legislative body.

What Mr. Hoover may really desire on the subject may well be revealed by the second pending announcement—the appointment of Jadwin's successor. For if he should appoint General Jackson, president of the Mississippi River Commission and probably the actual author of the so-called Jadwin plan, it would be taken as a mark of complete approval of that plan; whereas if he should appoint a man who, like Lieut. Col. Harold C. Fiske, has had much experience in surveying a large river system and planning power, flood control and navigation works, it would be interpreted as indicating a strong desire to give all possible consideration to development of storage facilities on the tributaries as a means of reducing flood heights to manageable proportions. A third possibility is, of course, that the selection would be such as to indicate neither of these things—merely an able engineer not committed one way or the other on this subject.

About all that can be said at this writing is that the flood control plans are in a critical stage, with interested parties anxiously awaiting developments.

URGES DUTY ON PETROLEUM

COL. CHAS. F. Z. CARACRISTI, consulting engineer, who for many years had wide experience in the oil development interests of this country and who for some years has been in Venezuela, writes from his home at Caracas regarding our tariff situation as follows:

"Petroleum and petroleum products should have a high protective duty. That would settle overproduction at home and conserve our fields. Free petroleum is a crime against independent home industry for the benefit of the big monopolies and in favor of the Government-owned British oil trust, and should go. Gasoline can be produced at 5 cents a gallon from foreign oil. The trust is keeping its reserves and forcing the small independent producers to sell at ruinous prices and eventually sell their properties at a loss.

"The present profit on gasoline is over 100 per cent of the original cost of production, even at its present low price. Congress should impose an import duty of 50 cents per barrel. It would not affect honest prices of petroleum products. Fifty cents per barrel is being paid for it here and it costs about 22 cents per barrel to transport it to American ports. After distillation its minimum value is \$4.00; that is placing all products at 10 cents per gallon and allowing for loss. You will note the profits. Nothing is being sold at anything like 10 cents a gallon. The cost of distillation and 'cracking' is not over \$1 per barrel, and this price is high. American oil cannot be produced and sold at a profit for less than \$1 per barrel, so that the 50 cents import duty would just about place domestic oil on a par with foreign products. The 22 cents freight is paid locally to pipelines, so that it could not be counted as a part of the cost of transportation.

"You will see from the above that the cost of production from here to Atlantic seaports is only 82 cents per barrel, and refining \$1, making a total of \$1.82, or 4.75 cents per gallon. This leaves 32 pounds for loss, etc., per barrel, which is excessive, as well as \$1 for refining. The Attorney-General of Texas is right."

"Drying Up the Springs That Should Fertilize Local Business"

MANY hearty endorsements have come to the MANUFACTURERS RECORD about the cover page editorial of July 11 entitled "Drying Up the Springs That Fertilize Local Business."

W. E. Lawrence of Tampa, Fla., writes:

"God bless you for that front page article in the July 11 MANUFACTURERS RECORD. The foundations of liberty are being destroyed."

George Fryhofer of Washington, says:

"I am writing a review of a book along the lines of concentration of money in New York which is to appear in the U. S. Banker, published in Washington, D. C.

"Your splendid article on the front page of MANUFACTURERS RECORD, dated July 11, entitled 'Drying Up the Springs That Fertilize Local Business,' is so good and so much along the lines of my article I wish to have permission to incorporate it, giving you, of course, quotations and full credit. If you will give me permission to do this I will appreciate it and it will give your editorial a circulation among the bankers of the United States.

"Enclosed please find quotation I am using in this article from Adam Smith's 'Wealth of Nations,' discussing conditions immediately preceding the fall of the Roman Empire. We do not want history to record the fall of the United States Empire."

The quotation from Adam Smith which Mr. Fryhofer encloses is as follows:

"In Rome, as in all the other ancient republics, the poor people were constantly in debt to the rich and the great, who, in order to secure their votes at the annual elections, used to lend them money at exorbitant interest, which, being never paid, soon accumulated into a sum too great either for the debtor to pay, or for anybody else to pay for him. The debtor, for fear of a very severe execution, was obliged without further gratuity, to vote for the candidate whom the creditor recommended. In spite of all the laws against bribery and corruption, the bounty of the candidates, together with the occasional distributions of corn, which were ordered by the Senate, were the principal funds from which, during the latter times of the Roman Republic, the poorer citizens derived their subsistence. To deliver themselves from this subjection of their creditors, the poorer citizens were continually calling out either for an entire abolition of debts, or for what they called New Tables; that is, for a law which should entitle them to complete acquittance upon paying only certain proportion of their accumulated debts."

At least one member of the Federal Reserve Board has expressed his hearty appreciation of the views in the editorial of July 11, and Ellison A. Smyth, one of the leading cotton manufacturers of North Carolina, says:

"I write to thank you for your editorial on the outside cover of the MANUFACTURERS RECORD of July 11. It is most timely and protests against a universal and evil practice that is general throughout the South."

Willoughby M. McCormick, head of the great tea and spice house of McCormick & Co., Inc., Baltimore, writes:

"I want to thank you for the splendid editorial on the cover of last week's issue of the MANUFACTURERS RECORD. Very few men realize fully the situation as it exists today. The continual draining of money from country districts and from the cities also, is beginning to tell, not only in Florida but in other states throughout the South and here. We feel it, too, as our customers include the retail and wholesale grocers. Repeated turnover of profits is what makes prosperity.

"You will note the failure of one of the largest banks in Tampa and quite a number of others in the last few weeks; in fact, one of our customers wrote us a few days ago that the third bank with which he has done business in the last

year had failed and he was through. The trouble is that his territory is honeycombed with chain stores, mail order houses and peddlers or wagon dealers, all of whom send their profits right back to headquarters.

"I hope you will continue the good work. I should like to have the privilege of reprinting your article, in whole or in part, and sending it out to about 6000 of our customers, giving you due credit therefor.

"It is a very serious situation. Many of our customers, particularly in the North and in the large cities, have devoted more time to the Stock Exchange than to their business, allowed the big organizations to come in and take their business through lack of interest on their part, and we are beginning to feel the effect of it keenly."

HEAVY INCREASE IN FOREIGN EXPORTS AND IMPORTS

THE total value of exports from the United States during June amounted to \$397,000,000, an increase of \$11,000,000 over June of 1928; while the total for six months was \$2,627,142,000, a gain of \$249,000,000 over the corresponding six months of 1928.

Imports gained during June even more rapidly than exports, totaling \$352,000,000 as against \$317,000,000 for June, 1928, a gain of \$35,000,000. The total imports for the six months ending June, 1929, aggregated \$2,284,000,000, a gain of \$199,000,000 over the corresponding six months of 1928.

The total increase of our foreign trade for that six months period was \$448,000,000.

For the 12 months ending with June, 1929, our exports totaled \$5,377,510,000, a gain of \$500,000,000 over the 12 months ending with June, 1928, and a considerable increase over each of the preceding five fiscal years.

During the 12 months ending June, 1929, our imports amounted to \$4,240,000,000, a gain of \$53,000,000 over the preceding fiscal year, and a gain of \$740,000,000 over the fiscal year ending June, 1924.

The total foreign trade imports and exports combined for the 12 months ending June, 1929, amounted to \$9,667,000,000, whereas for the 12 months ending with June, 1924, the total of the exports and imports was \$7,865,000,000, showing an increase for the last fiscal year of \$1,800,000,000 over the fiscal year of 1924.

"PERSONAL LIBERTY"

STANLEY E. KNAUSS of the Stout Air Services, Inc., operating the Detroit-Chicago-Cleveland air lines, writing from Dearborn, Mich., in regard to the attitude of his company as to the liquor question, says:

"We have recently inaugurated a rule whereby any pilot, mechanic, or employe of this company who indulges is subject to instant dismissal."

What do the advocates of "personal liberty" say in regard to the action of this company in taking from its employes their "personal liberty" to drink intoxicants and thus to endanger the lives of themselves and passengers? The airplane people are following the rigid rule of the railroads.

The talk of personal liberty to violate the prohibition law is as we have often said "the airiest bubble that ever found lodgment in an empty head."

Many Great Industrial and Building Plans Lately Announced in the South

WITHIN the last week or ten days the MANUFACTURERS RECORD and the DAILY BULLETIN have been able to announce the inauguration of many enterprises in the South, definitely under way or contracted for, which in the aggregate will run into hundreds of millions of dollars. This great work of industrialization is going on apace. Local people and outside capitalists are rapidly turning to the South as the coming centre of industrial development for this country, with the indication that it will in the not very distant future be the most important industrial section of the world.

Here and there in the South, as elsewhere, there may be some degree of inactivity and some depression, but the list which we are publishing shows how widespread are these undertakings and how vast the money involved in their construction. Without attempting to go into detail on the important operations reported during the last week or ten days, the following give a very good idea of what is going on:

Big Industrial Projects in Wide Variety Under Way

Engineers have been selected to prepare plans for doubling the capacity of the Monroe, La., plant of the Brown Paper Mill Co., Inc., estimated to cost \$5,000,000 and to provide for a daily production of 400 tons of paper.

Gulf States Steel Co., Birmingham, has let contracts for a 40-inch blooming mill to be constructed at its Alabama City plant, part of a \$5,000,000 expansion program under way.

Corn Stalk Products Co., Danville, Ill., announced plans for erecting two mills in the South to manufacture pulp from rice straw and sugar cane bagasse.

United Carbon Co., Charleston, W. Va., and Monroe, La., will erect a gasoline extraction plant in Richland Parish, Louisiana.

American Cyanamid Co., New York, let initial contracts in connection with the erection of a \$4,000,000 superphosphate plant at Tampa, Fla. Expenditure of more than \$25,000,000 in the development of hydro-electric facilities and fertilizer manufactories is proposed by the company in Eastern Tennessee. The company is working through the Holston River Power Co., J. R. Paull, New York, president, which proposes three hydro power plants, and erection of the cyanamid units will keep pace with the building of the power projects, the main development to be concentrated within a radius of 50 miles.

International Agricultural Corp., New York City, proposes to erect a \$750,000 fertilizer plant in the vicinity of Texarkana, Ark.-Tex.

National Acetate Silk Co., has been organized by the American Chatillon Corp. and the Tubize Artificial Silk Co. of America to erect a plant near Hopewell, Va., for the manufacture of cellulose acetate yarn by a process similar to that now employed by the American Chatillon Corp. In its new \$4,000,000 rayon plant at Rome, Ga.

Central States Natural Gas Co., re-

cently organized by the Texas Co., Skelly Oil Co., Phillips Petroleum Co. and the Columbian Carbon Co. proposes to build a 900-mile pipeline from the Texas Panhandle to Chicago, and nearby points, the project calling for upwards of 250,000 tons of pipe.

About \$500,000 will be expended for improvements to the Swannanoa, N. C., blanket plant of the Beacon Manufacturing Co.

West Texas Utilities Co., Abilene, increased its capital stock by about \$4,800,000 to finance an expansion program now under way, including its \$2,000,000 Concho generating station near San Angelo, Tex.

Development of Supergas Systems Has Inception in the South

Pooling of gas and electric interests and the merging of companies producing natural and artificial gas for the formation of supergas systems, referred to in recent editorials in these columns, resulted in the completion recently of the affiliation of several important companies with systems embracing most of the territory north of the Ohio River and extending from St. Louis to Pittsburgh. The affiliated companies are: The Columbia Gas & Electric Co., the Utilities Power & Light Corp., the Standard Gas & Electric Co. and the American Gas & Electric Co. Such a vast interconnection as is planned will, when completed, make possible the linking of a series of natural gas and artificial gas lines extending from Texas to the Atlantic Seaboard. Links already planned or in existence in the supergas system are the Mississippi River Fuel Corp., St. Louis, which is building a line from Monroe, La., to St. Louis; the St. Louis Gas & Coke Corp., which has a by-product and coke oven and gas plant opposite St. Louis; The Louisville Gas & Electric Co., which owns plants manufacturing gas at Louisville, and the Columbia Gas & Electric plants.

The Southern Railway system awarded

contracts for second main line track between Rogers Gap and Lexington, Ky., 19.6 miles long.

Plans are being formulated for extending the Abilene & Southern Railway Co. line from Ballinger to San Angelo, Tex., 38 miles, at a cost of \$1,500,000 to \$2,000,000.

The Elizabeth Southern Railway proposes a 31-mile line, Elizabeth to Kinder, La.

St. Louis, Missouri, has started work on airport facilities involving expenditure of over \$1,500,000.

Interests associated with the Curtiss-Wright Corp. are said to plan a large airport and airplane factory at San Antonio, Tex.

Wheeling, W. Va., proposes a bond issue of \$650,000 for airport improvements.

Oklahoma City votes July 30 on a \$425,000 bond issue for an airport.

Bids will be opened August 15 by the Constructing Quartermaster at Randolph Field near San Antonio for the first unit of a \$14,000,000 flying school.

Huge Drainage and Irrigation Jobs Go Forward

Work is being pushed by the Trinity-farm Construction Co., Dallas, on reclamation projects in Texas costing over \$18,000,000 and including a \$7,500,000 development for the Willacy County Water Improvement District No. 1 at Raymondville, Tex.; a \$6,000,000 project at Cotulla, Tex., for the LaSalle County Water Improvement District No. 1, and a \$4,325,000 project at Dallas for the City and County Levee Improvement District No. 10.

Tarrant County Water Control and Improvement Dist. No. 1 embracing the city of Fort Worth and 26,000 acres of Tarrant County land, will expend \$6,500,000 for flood control on the Trinity River and for irrigation, etc.

Owensboro, Ky., has sold a \$1,200,000 issue of bonds to finance sewer work. East Bank Water District No. 1,

Kenner, La., has voted a \$1,250,000 bond issue for water works improvements.

Dallas, Tex., proposes expending \$2,000,000 for water works improvements.

Jacksonville, Fla., will soon hold an election on \$2,100,000 improvement bonds, of which amount \$1,500,000 will be used for sewer and drainage work.

Major Building Operations in Many Parts of the South

Just a few of the outstanding new building projects reported during the past week are mentioned in the following to indicate the big volume of this class of construction:

The Malbis Hotel Co. has been organized at Mobile to erect a \$1,000,000 hotel.

Contracts have been let for the \$1,000,000 St. Elizabeth's Hospital, Anacostia.

Fourth National Bank, Atlanta, Ga., proposes to erect a 16-story addition.

Jesse H. Jones interests of Houston propose erecting the Fair Building, a store and office structure at Fort Worth at a cost of \$2,600,000.

Contracts will be awarded next month for a new U. S. Veterans Hospital, Atlanta, estimated to cost \$650,000.

An \$800,000 Marine Hospital is to be built at Galveston, Tex.

The Japanese Government proposes an \$800,000 embassy building in Washington.

Contracts will soon be let by the Nashville, Chattanooga & St. Louis Railway Co. for a \$500,000 passenger station in Atlanta.

Architects have been selected to prepare plans for schools to cost \$650,000 at El Paso, Tex.

Galveston, Tex., is mapping out a school building program to be financed by \$2,000,000 bonds recently voted.

Lubbock, Tex., voted \$650,000 bonds for a new high school.

The Realty Finance Co., San Antonio, plans a group of stores and apartments to cost \$600,000.

Merchants Bank & Trust Co., Jackson, is erecting a \$750,000 structure.

N. E. Bowden and associates plan a \$1,500,000 hotel in Oklahoma City.

The Youngblood Hotel Co. is erecting a \$750,000 structure at Enid, Okla.

A. M. Kaufman proposes a \$700,000 hotel at Memphis.

Tulane University, New Orleans, will soon let contracts for a \$1,000,000 hospital.

R. O. Dulaney and associates plan a \$1,000,000 office building for Fort Worth, Texas.

First Baptist Church, Fort Worth, proposes to erect a \$500,000 structure.

\$2,400,000 for Police Headquarters and Other Buildings in St. Louis

The city of St. Louis, Mo., recently completed an \$1,800,000 police headquarters building and a \$600,000 garage and gymnasium building. Located on Twelfth Boulevard, a 150-foot thoroughfare, these two structures, separated by an alley, form a fitting background for the Plaza Group of buildings now being constructed by the municipality.

The headquarters building is six stories high with basement and covers a ground area 138 by 218 feet; the garage and gymnasium structure is 140 by 150 feet. Both buildings have a reinforced concrete frame enclosed in Bedford limestone walls, backed with brick, concrete and hollow tile. Steel casement windows have been used in the street fronts; hollow metal, double hung windows in the rear and court sections. The headquarters building is served by six elevators.

On the first floor are offices for the automobile bureau, traffic division, traffic violation bureau, building superintendent, press, policewomen's division, as well as the central police district. The prisoners' entrance, booking counter of the central district, and elevators for the prisoners are completely shut off from the public portion of the building. The entire second floor is devoted to men's cells, well lighted and sanitary. The 36 cells, entirely of steel construction, will accommodate 288 prisoners, and the 24-foot ceiling height will permit the erection of an upper row of tiers to double the present capacity.

Assembly room for detectives, with adjoining lockers and wash rooms, and a tracing bureau are on the third floor.

The fourth floor is assigned to the secret service division. Offices of the chief of police, assistant chief of police, clerks, etc., are housed on the fifth floor, also the bureau of records and the central district matron's quarters, where women prisoners are confined.

Executive offices of the board of police commissioners are on the sixth floor.

The first floor of the garage provides space for 50 automobiles; gasoline, oil, air and washing facilities are all conveniently located. The walls are of face brick and the ceiling is plastered. An elaborate ventilating system is provided for the removal of gases. On the second floor are police training facilities, including a specially designed target range. The gymnasium on the third floor is equipped with complete regulation athletic equipment and there is a running track floored with linoleum.

The sub-basement contains three heating boilers, two of which are used to carry peak loads, the third being intended as a stand-by or emergency boiler. The ventilating system is confined to corridors, interior and cell rooms, and the air is washed, passed through filters and ozonated.

Both buildings are supplied with power and light through transformers connected to the lines of the local light and power company, but provision has been made to connect with the transmission lines from the municipal power plant.

The Kenton Construction Co., St. Louis, were general contractors for the police headquarters, garage and gymnasium buildings, after plans by Mauran, Russell & Crowell, St. Louis architects.



New Structure Housing St. Louis Police Headquarters

Florida Captures the Heart of a Great Capitalist and Humanitarian



August Heckscher

AUGUST HECKSCHER is known the world over as one of the most ardent and active New Yorkers. He lives in New York and from that city directs numerous enterprises reaching to the far ends of the earth. He is constantly working for the betterment of living conditions in the city which he calls home and to which he came many years ago from his native Germany. New housing plans, bigger and better playgrounds for children, day nurseries at which working mothers may safely leave their children, parks, museums, cultural centers of various sorts, all find active interest on the part of Mr. Heckscher and in most cases revolve about him.

Despite all that he has done and is doing for New York City, August Heckscher's heart is in Florida and the reason why throws a new light on the character of this exceptional man.

Florida today is coming back. Few, if any, of the great developers who placed untold millions in the development of that state have lost their faith in Florida as the land of real opportunity, of health, of wealth and of happiness.

Those who have invested materially in Florida may be classified in three groups as follows: First, that group which sought to take out of Florida one hundred dollars for every dollar invested; second, those who have joined in investing in Florida for the general good of the state itself and the citizens thereof; third, those who saw in Florida the opportunity for bettering the human race, particularly the great masses who sought life in the large cities and found only toil, drudgery and deprivation.

August Heckscher belongs to this last group. Florida, to him, is the "promised land" for thousands upon thousands of

The Many Developers Who Placed Millions of Dollars in the Upbuilding of Florida Are Constantly Showing Their Faith in the State as a Land of Real Opportunity, of Health, of Wealth, and of Happiness. This Particular Developer Is Now Building a Permanent Winter Home in Florida.

By BARRON COLLIER, New York City.

Some years ago the editor of the MANUFACTURERS RECORD asked Henry M. Flagler what had been the motive which prompted him to concentrate his vast wealth and business abilities on the development of Florida. The answer was that he thought in that way he could do more for the betterment of humanity than by spending his time in New York making money.

That is the spirit which, according to this interesting article by Barron Collier about August Heckscher, has moved that multi-millionaire philanthropist to concentrate his work largely upon the development of Florida for the good of other people.

Just now, at 81 years of age, Mr. Heckscher is building a fine winter home at St. Augustine, an example which many others might follow to advantage. When, at 80 years of age or more, John D. Rockefeller began building a winter home at Ormond near Daytona Beach, many people marvelled that a man of his age would undertake such a task, but Mr. Rockefeller has lived to enjoy his winter home, and we trust that Mr. Heckscher for all the good he has been doing for children and for the poorer people of the country, and for the great interest he has shown in the development of Florida, may yet have many years of life to enjoy his new home in St. Augustine. He has poured many millions of dollars into Florida investments, but not for personal profit so much as for the betterment of humanity.

Barron Collier, writer of the article, is himself an illustration of the spirit of men who are doing great things in that state, for it was but a few years ago that he bought a million acres of Florida land, established the County of Collier and ever since has been carrying forward important developments in that section. He too, doubtless, like the others has been moved in part at least by the spirit of betterment for other people. — Editor MANUFACTURERS RECORD.

those now living in congested areas. Florida, to him, is a national playground where some day he hopes to see the death of the tenement question, the scourge of every city. In Florida's fertile fields and with Florida's sunshine, August Heckscher visions healthier and happier children.

It was with much of this in mind that a number of years ago this New York

capitalist began his purchases of great tracts of Florida land. He did not seek the amusement places along the coast but looked farther inland and a greater part of his holdings will be found in the central part of the state near Mountain Lake and for more than 20 miles along the St. John's river. Throughout this territory, Mr. Heckscher has built numerous casinos and has put in clubs, agricultural experiment stations, orange and citrus fruit groves. He has done much to help the state prepare itself for the tremendous permanent population which, it is his belief, Florida will ultimately comfortably and healthfully house.

At the time of his close study of the tenement situation in New York which caused an extensive tour of Europe to study similar conditions there, Mr. Heckscher found himself up against the old problem of Mahomet and the Mountain. The poor of New York needed Florida, yet neither the time nor the opportunity was ripe to place the advantages of Florida at their service. Therefore, Mr. Heckscher brought Florida to New York. He placed under cultivation many hundreds of acres of his Florida land, and from the yield of his great orange groves supplies New York's poor with the finest of Florida fruits free.

August Heckscher was one of the half-dozen capitalists who "went into Florida" long before the recent Florida boom. Others of this group were such men as Carl Fisher, S. Davies Warfield, H. H. Raymond, Coleman du Pont, John H. Perry, Henry M. Flagler, Henry B. Plant, Stone & Webster, George E. Merrick, B. G. Dahlberg, Joseph W. Young and John Ringling. Not one of these entered Florida for the purpose of "milking" that state.

On the contrary, the incentive of each was to make possible, to untold thousands, occupancy of the land of perpetual youth.

August Heckscher was born in Hamburg, August 26, 1848. He came to the United States 20 years later and engaged in the coal business. A few years after, his ability as an organizer resulted in the

formation of the Lehigh Zinc and Iron Company which later consolidated with others into the New Jersey Zinc Company of which he was general manager until 1904. Fortune smiled on August Heckscher and he soon became president of the Anahama Realty Corporation, a director in the Liberty National Bank, the Empire Trust Company, the Crucible Steel Company, the Union Bag and Paper Corporation and the Bank of Huntington. His office and work as chairman of the Heckscher Foundation for Children has probably done more to endear him to his fellow-citizens than any other one thing.

In years, August Heckscher is no longer a young man; at heart, he is. And today, at the age of 81, this grand old man will be found actively present at every gathering which looks to the betterment, physically or socially, of New York and its millions of inhabitants.

Millions of dollars have come from August Heckscher's fortune, for the benefit of mankind. Behind every dollar stands an additional dollar's worth of personal interest, personal ability and personal activity directed toward making that dollar do its full duty.

Industrial Survey of Alabama by Counties

The Alabama Industrial Development Board, Birmingham, is making a survey of the state by counties. The compilation is to be published in individual volumes, one for each of the 67 counties, and the first one, covering Houston County, is now available.

One reads that Houston, the southeasternmost county of the state, is almost entirely agricultural; that it is one of the most productive counties in the state; that its population of 41,944, which is three-fourths white and practically all native, measures about 70 persons per square mile, but that if Dothan, the only considerable town be omitted, this figure will shrink to 47 per square mile.

Dothan is described as a prosperous modern city of 14,000 population, with good water supply and ample electric power, and able to furnish 5000 white male and 2500 white female laborers at from \$7 to \$21 per week. No comment is made on these wage extremes, but it is scarcely out of order to point out here

that in the agricultural counties of the South it is common for the younger members of farm households to live on the farms and travel considerable distances to and from factory jobs; and to work for almost any wage that will bring a cash income. Where only one occupation is open to a considerable majority of the population, whether that occupation be farming or what not, there are bound to be misfits anxious to change; and where, in addition, the products of the farm lack adequate markets, the need for factory jobs is accentuated.

Water supply and water rates are described and listed; the chemical analysis of the water is presented; electric power rates are given.

Such reports, made with thoroughness and accuracy, will enable an executive looking for a promising location to narrow his search to those counties described as best suited to his needs; and they should prove invaluable to the state itself.

Power Equipment Speeds Plant Construction

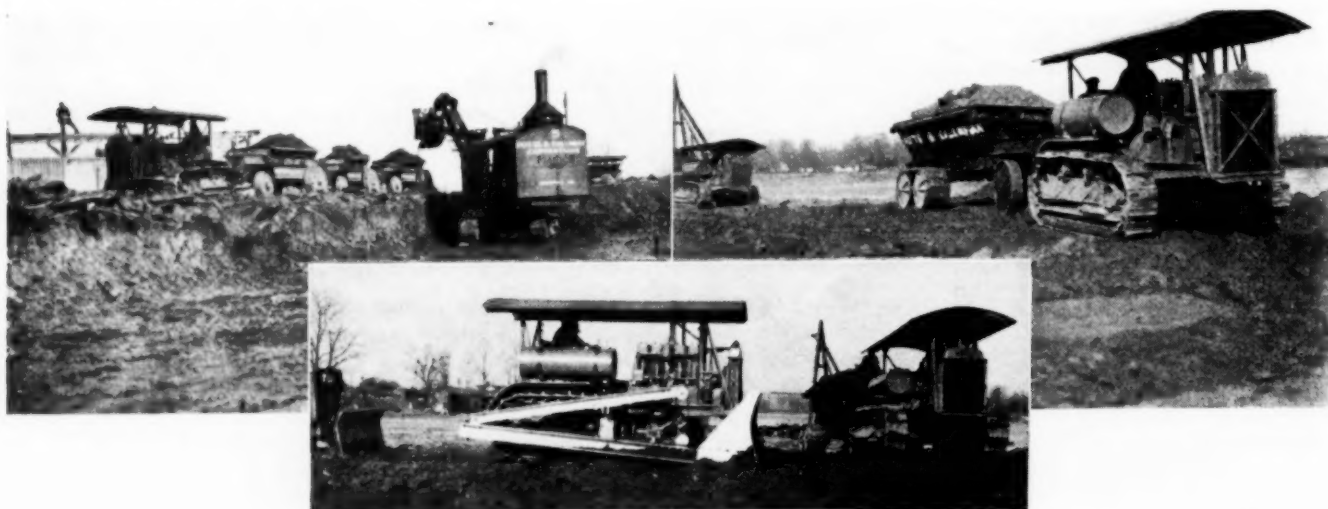
Potts & Callahan, contractors of Baltimore, are pushing the work of grading and excavating and laying railroad tracks in connection with construction of the plant at Point Breeze on the Patapsco River for the Western Electric Co., which will, as now planned, ultimately involve the expenditure of \$25,000,000. The work started about January 15 and is scheduled for completion in 18 months, and calls for the handling of 1,500,000 cubic yards of material and 10 miles of railroad track. Up to July

10, 300,000 cubic yards of earth had been handled.

A feature of the job is that no mule teams are used, power equipment being employed exclusively. Two Marion steam shovels and one Diesel-electric shovel of the same make, and four Erie steam shovels are utilized. Eleven Caterpillar tractors haul seven crawler type wagons of 10-yard capacity, manufactured by the Biehl's Wagon & Auto Body Works, Reading, Pa.; also they operate bulldozers supplied by the La

Plante Choate Mfg. Co., New York. In a 9-hour day two Caterpillar 60s, each pulling a Biehl 10-yard wagon on a haul of 300 feet per round trip, handled 236 loads totaling 2360 yards. Ten automobile trucks, made by the White Co., the General Motors Corporation and Sterling Motor Truck Co., are a part of the equipment.

In laying the railroad tracks two industrial locomotive outfits are used, Koppel cars being drawn by Vulcan locomotives.



Type of Power Equipment Which Replaces Mules on Big Excavating Job in Baltimore

Give Us an American Tariff Bill

Enough Tariff Opposition Will Cause Wholesome Reaction—International Patents an Aid to Foreign Influence Against Protection—Two Influential Americans Who Offer Nothing Constructive Answered

By WILBUR F. WAKEMAN, Former U. S. Appraiser of Merchandise, District of New York.

[To every student—and every man and woman in America should be a student of the tariff situation—we commend for study the following article by Wilbur F. Wakeman. The effort of foreign governments and of some Americans, more interested in foreign trade than in their own country, to misrepresent the tariff situation and vigorously to fight against a sound, protective tariff needs to be exposed over and over again. Some of these points are touched on in this interesting article. Mr. Wakeman's series on the tariff, which he has been writing for several months for this paper, are worthy to rank as important contributions to the tariff history of the country. The articles will be continued for some weeks while the tariff fight is on.—Editor MANUFACTURERS RECORD.]

Number 19.

"EXPONENTS of America" in Congress ought to feel highly complimented by the foreign protests against the Hawley Tariff bill, for every protest of foreigners points to some holes in our tariff wall that have been plugged up, or to weak rungs in the ladder of schedules of duties which have been replaced with sound ones.

There are many weak spots in the existing tariff and in the proposed tariff, but naturally foreigners benefitting do not mention them and it is left to the Senate Finance Committee to stop the gaps. Foreign governments are quick to take up the complaints of their producers and manufacturers. Indeed, watchful care of every producing unit seems to be the chief purpose of foreign governments.

In my own experience I remember an instance when the popular German Minister von Sternberg called upon President McKinley to protest against a ruling or classification of foreign merchandise which had not at the time been made, anticipating the appraiser's possible action. This grew out of investigations made by the New York Appraiser which had been reported to Berlin, with the result that their foreign office had instructed Baron von Sternberg to prevent a ruling adverse to the continued wrongful and low rate of duty assessed which had been of great benefit to German manufacturers of fancy cottons and to the American importers thereof. Under the circumstances the President called for reports which resulted in the appraiser being called to the then executive mansion and presenting the facts he had gathered to the President. Consideration of these facts resulted in the President notifying the German government through its minister that the case should go through regular customs procedure and not through the executive mansion. The classification objected to was made by the appraiser, resulting in hundreds of thousands additional revenue a year and the protection to the textile indus-

try intended by the laws of Congress. The German gesture made through its minister illustrates the uses of diplomacy.

We do not object to the importation of foreign products, both competitive and non-competitive, but on competitive products we desire an adequate protective tariff in order that our own people may have the opportunity of employment in as many vocations as possible; for developing their aptitude, and the fulfillment of their ambitions.

Many readers of the MANUFACTURERS RECORD will doubtless recall Charles A. Moore of New York, the friend of President McKinley who accompanied him upon his Pacific coast trip. One of the nation's big business men, the head of many manufacturing concerns, and always a protectionist for every product from the raw material to the finished product, he was an extensive traveller and seemed to have entre almost everywhere. It was said of him that if he saw a machine in his line anywhere, he could come home and make it. After one of his annual trips abroad we were discussing the intense desire of foreign manufacturers to dump their production in the American market. Then he said, in effect, "Why our competitors abroad work in relays 24 hours a day to find some way of getting their stuff into our country, and when a new law is under consideration they use their governments, just as far as they dare, to prevent tariffs which will in any way affect American purchases. Step into any of our great department stores, and you would think, from the foreign goods displayed, that there is nothing made in the United States. Foreign manufacturers would absorb our markets if possible, and will come close to accomplishing their ambition in a non-protective tariff law." Almost as if spoken today were these words of Mr. Moore regarding the efforts of foreign governments in present legislation. Of course, there is a line of interference that foreigners

may not cross, but free and full discussion of the American economic policy is always permissible.

There is an element in the foreign drive against tariff protection which is to be feared, namely, the indirect influence of American expatriated capital invested in foreign production, and the use of the "home" American investors' influence on tariff legislation. There are great American interests in many foreign countries, and besides those involved in international patents, the most significant and far-reaching probably being the American refiners of cane sugar and affiliated American bankers in Cuban investments. The growing of the cane, the sugar houses, the shipping, financing, American refining and domestic distribution, all are directed from Wall Street. How much opposition to an adequate protective tariff in favor of the domestic cane and beet sugar would there be were it not for the American-Cuban control? The American consumer had a taste of sugar at 21 to 28 cents a pound under limited American production, and they will follow Senator Smoot for an adequate tariff creating large production and reasonable prices.

International Patents

Foreign investments have been forced upon many owners of patents by the laws in several countries for the reason that to avail themselves of the benefits of international patents, factories must be operated for the manufacture and sale of the article or articles covered by the patents. Thus for many years vast sums of American capital have emigrated to protect the title to international patents within the international union. The Americans in control generally favor a low tariff here for, with the same machinery and cheap labor operating abroad, they can take advantage of the American market whenever commercial conditions indicate that there is more profit in importing the foreign than in using the domestic article, made by the

same owner. These American investors abroad may exercise an insidious influence in Washington legislation. Representatives of such interests should always be cross-examined and investigated regarding their foreign connections.

Foreign influences, however, in my judgment will fail because of the true Americanism of the U. S. Senate. Home influences are more to be feared, and possibly the most general drive against adequate protection is on. Sometimes it seems as though a vast combination, unified and operating against our American policy had been organized. Consider the position of the Curtis (Cyrus H. K.) publications and Dr. Nicholas Murray Butler, president of Columbia University, both influential, both opposing protection. Dr. Butler claims to be Republican and in 1920 received 69½ votes for the Republican nomination for President. Recently the learned doctor was ill and as soon as he was able sailed abroad to recuperate, and with regained health evidently acquired foreign sentiment; for returning, his interview aboard ship as published in the New York World, read, in part:

"The tariff bill as passed by the House of Representatives has aroused great concern in Europe as it has in the United States. Its provisions have been framed without the slightest regard to the world situation and our vitally important relation thereto. The European nations which are our debtors are mystified to understand how and why a creditor nation like ours should make it as difficult as possible for its debtors to pay their debts.

"It is a safe prediction that this American tariff bill, if enacted into law, will hasten the movement in Europe, of which the signs are everywhere evident, to bring about an economic federation or a customs union on the Continent."

If Doctor Butler will make a careful study of the "Statistical Abstract of the United States" for 1928, noting the enormous importations of competitive merchandise, which can be or is produced at home, he must conclude that there is a "domestic" as well as a "world" situation to be considered.

Since the Hawley bill was introduced, the Curtis publications—referring especially to the N. Y. Evening Post and the Public Ledger—have, in their editorial and special writer columns, leaned more and more against the national policy of protection. As it came to the presentation and discussion of foreign protests against the new tariff, the N. Y. Evening Post published an undignified, unwarranted and undeserved editorial regarding Senator Smoot, chairman of the Senate Finance Committee, and his handling of the foreign protests. In the editorial, the Post says:

"And behind him is the selfish drive of the Utah beet sugar growers, who are

going to upset millions of American money in Cuba, make us all pay more for sugar and change the balance of nature so that their own little artificial industry may heap up profit."

Mr. Curtis forgets Louisiana, Texas and Florida producing cane sugar, and the 19 other states of the Union producing beet sugar. While attacking Mr. Smoot, the editorial is really against the protective tariff and intimates a presidential veto. It is doubtful if Editor Curtis with his hundreds of collaborators, or President Butler with his hundreds of faculty members—it is doubtful if any of them have read the Hawley tariff bill or the report thereon submitted to Congress. Editor Curtis and President Butler have influence. Is it fair, is it honest, is it American, for them to treat the duly elected representatives of the people as they have? Though prominent, Editor Curtis and President Butler have not been elected to speak for the

people in any Congressional district or state.

If foreign protests against American policy and proposed laws continue; if international industrial effort against the tariff continues; if the theorists shout, "we want to buy in the cheapest market"; if the importers continue their efforts for unfairly low rates of duty on foreign merchandise, and if customs practitioners intrigue to have a law so loosely drawn that it will redound to their benefit, we shall have an aroused public sentiment so strong that it will compel the passage of a bill stronger than the Fordney, Payne-Aldrich, Dingley or McKinley laws.

Let the Senate Finance Committee take all the time it may need for the careful scrutiny and revision of every administrative proviso and every rate of duty and give us a complete all-American measure.

\$500,000 Packing Plant Completed

Swift & Co. Establishes Unit to Prepare Produce and Dairy Products for Market

Swift & Company, Chicago, recently added to their plants in the Southern states by erecting at West Point, Miss., a \$500,000 poultry packing, milk products, and produce plant, said to be the largest of its kind in the South. The company purchases live poultry, eggs, cream, and whole milk from farmers in the surrounding territory, to be turned into dressed "milk-fed" poultry, candled and graded eggs, cheese and butter at the new plant.

The main building is three stories high, constructed of reinforced concrete with a foundation of 40 concrete piers, seven feet square at the base, extending 22 feet into the ground to a limerock foundation. A milk receiving platform, 16 by 90 feet, constructed of concrete, extends along the front of this building. On the east side, a shipping platform is provided adjacent to the railroad siding. A one-story annex, 90 by 90 feet, serves as a boiler and power house, egg receiving department, and for storage of egg cases and box materials.

Three cold storage rooms are provided

on the first floor of the main building for butter eggs and cream, and three rooms on the second floor for cheese curing, cheese storage, and poultry packing. Located on the third floor are 170 batteries for feeding 20,000 head of poultry for a period of seven to ten days, 10,000 head being dressed and packed daily.

In the creamery department the equipment is composed of an automobile milk receiving conveyor, a can sterilizer, two 600-gallon glass-lined ripening vats, a starting vat, a pasteurizer, a cream dump vat, an 800-pound butter churn, and a butter print machine and wrapper equipment with a capacity of 800 pounds an hour. The cheese department is equipped with four 10,000 pound milk vats, two 600-gallon glass-lined receiving vats, a separator, a pasteurizer, and two cheese presses, each of 3000 pounds capacity.

Power is provided by a 100 horsepower boiler and 38 individual motors served by the Mississippi Power Co. A 30-ton machine is used for refrigeration.

Whole milk and cream is received at the plant at the rate of 60,000 pounds daily, double the amount arriving at the opening of operations. From this raw milk and cream 18,000 pounds of cheese and 20,000 pounds of butter are produced weekly.

The Smallman Construction Co., Birmingham, was general contractor for the plant; plumbing work was by the Shaw Gas & Plumbing Co., Little Rock, Ark.; heating by Hal Milsaps, West Point, and electric wiring by the Floyd Electric Co., Opelika, Ala.



West Point, Miss., Plant of Swift & Co.

INDUSTRIAL RAILWAY and DRAGLINE

Adapted to New Method of Levee Construction

WITH the adoption of the new flood control plan involving construction of the larger levee sections in the various districts of the Mississippi River Commission, hauling of materials from borrow pits to the levee proper became a serious problem. Borrow pit dimensions and limited slopes, compulsory in accord with government specifications, place the largest yardages at considerable distance from the levee section. The wide berms standard in these districts also tend to make the problem more difficult.

Distances of 500 to 700 feet for haulage are common; the correct solution of the problem involves meeting the government prices set for the work as performed with the government owned equipment on hand. Prices that are more or less standard for team work are too high for competition with the government except in isolated cases. This puts up to the contractor the burden of devising some system that will insure profits at lower prices, and the engineering ability of the contractors is thus challenged.

Many methods of haulage have been used. Experimentation last season was directed toward a mechanical system to eliminate the mule-wagon plan with its camp and labor troubles, and the time and money involved in a solution of this problem interfered with levee building in 1928.

Tractor and crawler-type wagons,

By J. C. FRENCH,
Sales Manager,
Monighan Manufacturing Corporation,
Chicago, Ill.

large electrically dumped fresnos and long boom draglines working in tandem were tried with more or less success, according to the contractor's particular idea or system. But it remained for newcomers in the levee building field to adapt the industrial railway system, working in conjunction with small dragline machines, and originate a new plan to solve the haulage problem and insure constant and dependable yardages. This system is the first radical departure from oldtime levee building methods, and the general plan of operations is as follows:

Each unit consists of a 3-yard dragline machine of the Monighan walking type, equipped with a 75-foot boom, located at the levee end of the combination and

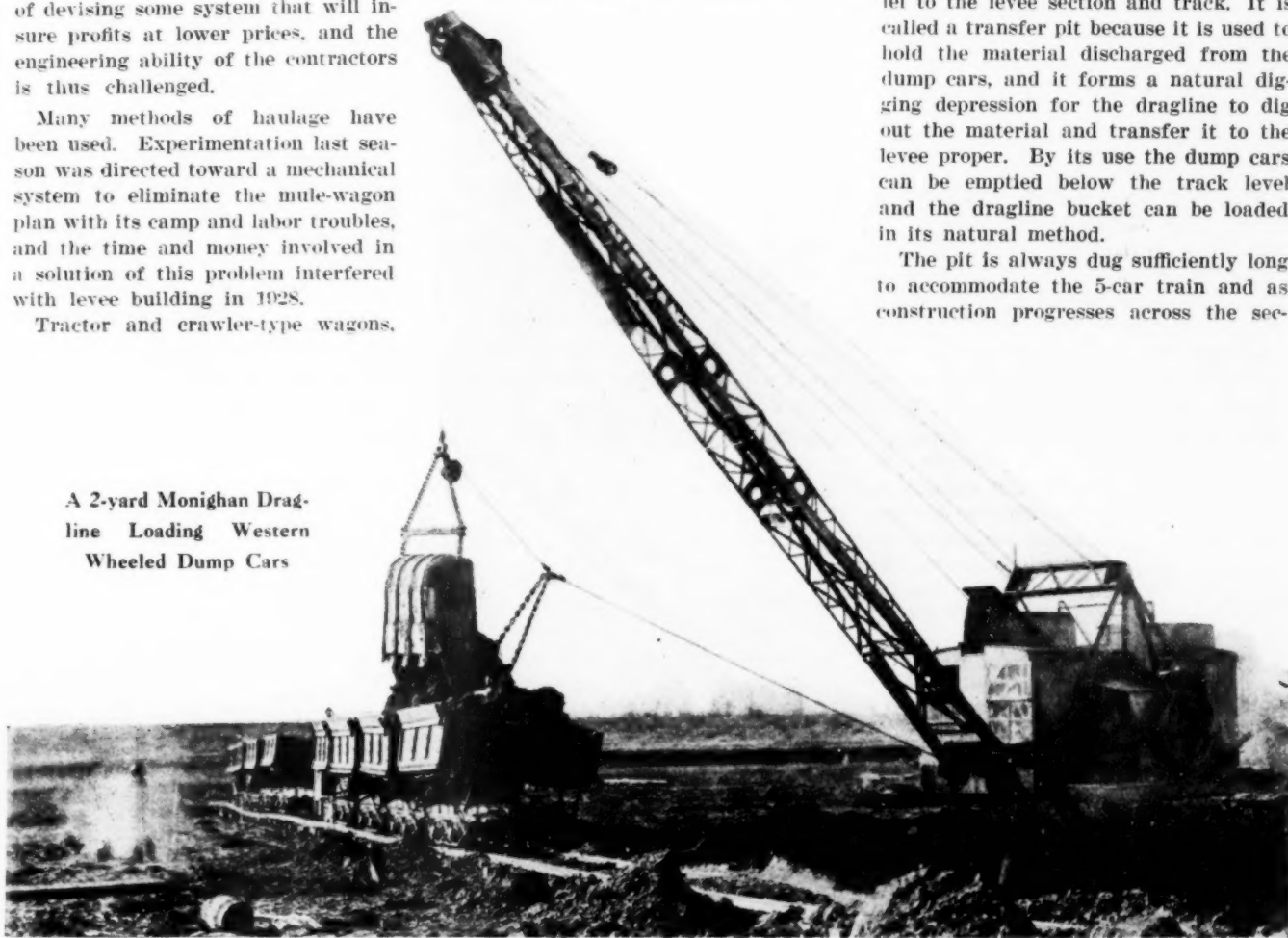
a 2-yard dragline machine of the Monighan walking type, equipped with a 60-foot boom located at the borrow pit end. Between these two machines is a 36-inch gauge industrial railway, the track extending from a point beyond the landside toe of the levee to a point at the extreme outside limit of the borrow pit.

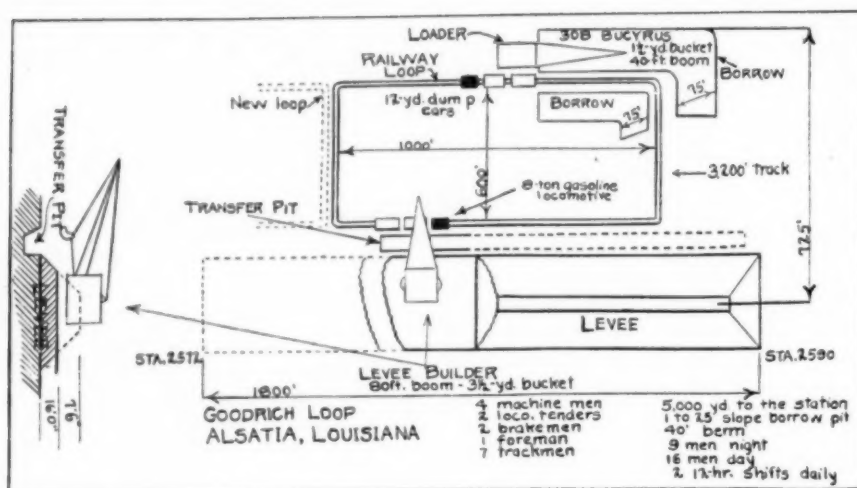
Five-yard Western cars in trains of five cars each are used. Two trains are provided for each railway unit, each pulled by a 6-ton Vulcan gasoline locomotive. Single track only is used, with no switches or detachable joints. Ties are carefully selected and a track crew inspects the ballasting frequently to insure correct traction.

A transfer pit dug by the 3-yard dragline machine has approximate dimensions of 11 feet in width and 7 feet in depth and lies between the industrial track and the levee section being built. It is within a few feet of the track and parallel to the levee section and track. It is called a transfer pit because it is used to hold the material discharged from the dump cars, and it forms a natural digging depression for the dragline to dig out the material and transfer it to the levee proper. By its use the dump cars can be emptied below the track level and the dragline bucket can be loaded in its natural method.

The pit is always dug sufficiently long to accommodate the 5-car train and as construction progresses across the sec-

A 2-yard Monighan Dragline Loading Western Wheeled Dump Cars





tion the pit is gradually filled up and extended. The 3-yard dragline machine moves across the levee section, building as it travels. After each unit is built, the machine advances 60 feet, moving the track the same distance at the same time. The rest of the track is advanced by a Caterpillar tractor used solely for this purpose. The track is never disjointed and is skidded into position rather than by a direct lift.

When the new position is reached by the industrial railway, the 2-yard dragline or loader is placed in position for starting a new cut by moving across the end of the borrow pit parallel to the levee proper. While digging, the machine movement is back and forth at right angles to the levee, or from one end of the borrow pit to the other. Material is loaded into the 5-yard dump cars as rapidly as they are placed in position.

The two train system permits one train to be loaded while the other is pulled toward the levee and transfer pit. After the first or nearest train has been emptied, it is pulled into position beyond the levee section so the second train can be placed at the transfer pit for discharging the cars. Both empty trains are then pulled back to the loading position together.

This system requires five minutes, for loading the two trains and requires a six minutes shutdown for the loading machine while the trains are pulled toward the pit. It is estimated that the capacity will average 30 yards per 11-

minute division of loading and discharging the material, or 1800 yards per 11-hour shift. Capacities as high as 140 trains have been loaded and emptied in one 11-hour shift by this method.

The general scheme involves units consisting of a loading dragline, trains and a levee building dragline, all at work at the same time. Each unit is placed about half a mile distant from the others, allowing a competitive plan of operation between the crews for yardage placed each day. The operation can be continued throughout the rainy season.

This plan is being used by the Canal Construction Company of Chicago and Memphis, on a levee project located near Lake Cormorant, Miss., consisting of 1,900,000 yards. The yardage is placed in the construction of a levee loop, made necessary by the old levee being weakened by the 1927 flood and weather erosion. The first contract included only new levee construction of 1,250,000 yards, but the enlargement work awarded to the contractors before they had finished the original section raised the yardage to the greater figure.

Each unit uses 11 men: Two dragline operators, two dragline oilers, two locomotive tenders, two brakemen, three track

men, two levee graders, two pit men and one foreman. This labor gang is required for each shift. Draglines use Diesel engines and oil consumption is very low insuring low cost for shift operation. Locomotives are being changed to Diesel drive also to lower the operating cost, and the general final decision is now being made as to correct size for the loading and levee building draglines and the right size of cars and locomotives. On this decision will be based the new method of levee haulage for coming flood control work.

Another application of the industrial railway-dragline method was recently used near Lake Providence, La., on what is termed the Goodrich levee, the construction consisting of only a small yardage and only one unit was placed. Work was undertaken by Igo & Boyce, Memphis, another newcomer in levee building, but having considerable experience in drainage and irrigation fields. This firm arranged with the Canal Construction Company for use of its system and placed a 3-yard Monighan walking dragline in position as the levee building unit and an industrial railway of standard gauge in position in the form of a complete loop. Two trains, with two 12-yard Western cars in each, were pulled by an 8-ton locomotive. The loop, 1000 feet long and 600 feet wide, consisted of 3200 feet of track. A 75-foot pit was dug, on both sides of the far section of the loop, into the deep dimensions of the borrow pit, using a 1 1/2-yard Bucyrus Diesel dragline machine.

The levee section averaged 5000 yards to the station, and the borrow pit was built on a 1 to 25 slope leaving a 40-foot berm. Average loading was 60 trains in 12 hours or 1440 yards per 12 hour shift. Each train was loaded in from 10 to 12 minutes, and 6 minutes were required to move loads to the transfer pit and dump, a total of 24 minutes for each train to complete a cycle.

The crew consisted of two machine operators, two machine oilers, two locomotive tenders, two brakemen and five track men. One superintendent was required at the levee building machine as the levee section was completed and graded by the machine. This close grading was done by placing the 3-yard Monighan



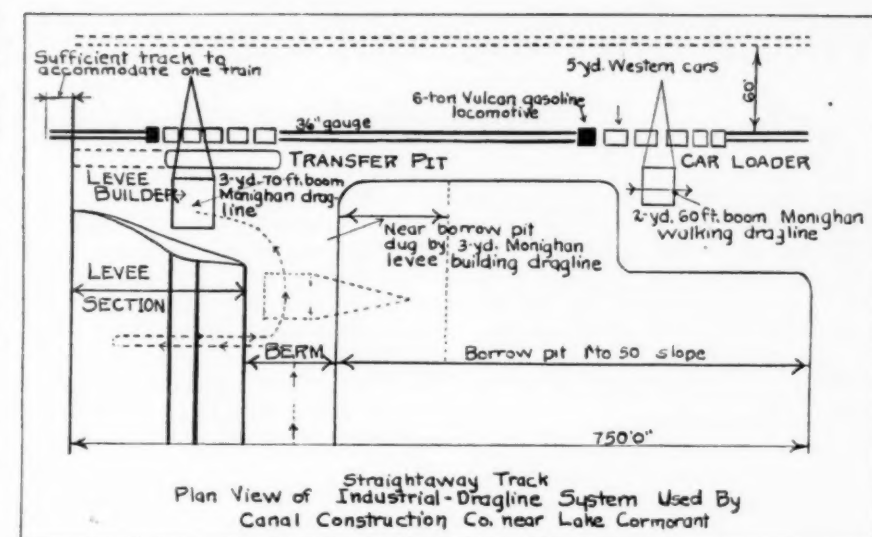
General View of Dragline Industrial Railway Levee Construction Operations

walking dragline on top of the levee fill within $2\frac{1}{2}$ feet of finished height, which allowed the boom length to reach the material from the transfer pit at the riverside toe of the levee and place it in position at the landside toe. Actual grading was done by the dragline operator.

With this loop system the transfer pit is dug parallel to the levee proper instead of crosswise as with the single track plan. This system seems to have an advantage over the crosswise type as the levee building machine fills it automatically as it builds the levee ahead and the pit also forms a definite toe for the riverside edge of the levee.

The fact that the contractors placed finished levee at each station is an important feature of this system. All weather erosion is eliminated at the contractor's expense.

The combination dragline machine-industrial railway equipment system has demonstrated its ability to overcome nature's opposition to this work, by continuing operations through flood stages of the river and the rainy season. It produces constant and dependable yardages and presents an interesting illustration of what can be accomplished by a thorough consideration of all obstacles before actual operation is started with mechanical knowledge applied to a com-



bination of successful machinery applications.

With flood control work now to be undertaken the system will be used to a greater extent and larger units incorporated to gain additional yardage. A 3-yard dragline will load from the borrow pit and 6-yard cars will convey material to a 4-yard dragline machine equipped with a 100-foot boom. Some systems will include placing the levee building machine on the levee fill, as a greater flexibility can be obtained

with the machine in such a position.

Flexible traction mountings are required of the dragline machines to insure soft ground operation without the necessity of matting and get results during all weather operation. Dragline power plants will be standardized on Diesel drive, as this power fuel consumption is sufficiently economical to insure daily operating costs low enough to bid in the work at a figure to compete with other transporting systems and still insure the contractor the necessary profit.



Loading Dragline Machine Filling Cars at Riverside Edge of the Borrow Pit. Excavated Borrow Pit in Foreground

\$1,250,000 Waterworks Bonds Voted

Kenner, La.—East Bank Water District No. 1, comprising the entire section of Jefferson Parish east of the Mississippi River and embracing all of wards 7, 8 and 9, has voted \$1,250,000 bond issue for a waterworks and fire defense system in the district. Bids for the purchase of the bonds will be invited soon, it is said, and work on the project is

expected to begin shortly after the sale of the issue. Plans for the project are being prepared by Henry A. Mentz & Co., consulting engineers of Hammond, La. It is planned to build a modern filtration plant of 6,000,000 gallons daily capacity, with a subsidence basin, water storage, elevated tanks, water mains, valves, hydrants and other facilities. The water lines will be of large capacity, fed by 20-inch mains, while pumps will be installed for electric operation, with reserve engine unit installation.

Electrical Manufacturers to Meet in Washington

The National Electrical Manufacturers Association will hold its annual meeting at the Wardman Park Hotel, Washington, D. C., the week of October 7. A large attendance, representing the entire electrical manufacturing industry, is anticipated as this is announced as the only meeting attended by all the different product groups in the association.

Federal Income and Corporation Tax Returns Somewhat Misleading

Rather over-optimistic statements were sent out from Washington recently as to the increase in preliminary returns of income tax receipts for the fiscal year of 1929. Much stress was laid on the increase of \$156,536,724 in tax collections. On the surface this would seem to reflect great prosperity for the entire country.

The net increase of total taxes, income and corporation, amounted to \$147,600,000, but of this gain \$90,127,000 was reported from New York, due doubtless in a large measure to the enormous speculative operations which have centered there, and which would hardly be classed as a real evidence of general national prosperity.

At the close of the 1928 calendar year a statement was issued from the New York Stock Exchange to the effect that the advance in securities handled on the Exchange during the preceding 12 months had been about \$15,000,000,000. How much of this was fictitious and how much was based on the general progress of this country in many lines of business cannot yet be decided, until it is known a year or two hence whether there is justification for the tremendous advance in security prices. This advance easily accounts for much of New York's increased tax returns.

It has been well said of Wall Street "that it knows the price of everything, but the value of nothing." Many of the speculators buying Wall Street Stock Exchange securities know nothing whatever of real values, but simply buy because of the general hurrah that is being created throughout the country as to the advance in stocks.

While New York reported this gain of \$90,127,000, North Carolina reported an increase of \$29,179,000 due almost wholly to the enormous but undesirable increase in cigarette smoking, brought about in part by the most tremendous advertising campaign the country has ever seen in behalf of cigarettes, the smoking of which on so large a scale cannot be claimed as of permanent value to the country, or an evidence of prosperity. Virginia made an increase in its Federal payments of \$3,788,000, also due largely to the cigarette and other tobacco interests of that state. The gains reported from these speculative operations in New York and the cigarette business of Carolina and Virginia leaves a net gain for the balance of the country of only \$14,000,000.

Twenty-two states of the Union

showed a decrease in income tax returns, even Pennsylvania showing a very considerable decrease as compared with the preceding year—a net decrease indeed of nearly \$8,000,000. Some of the decreases reported were probably due to lower income tax rate and others to general lack of business prosperity which prevailed during 1928, and for which the Government is now collecting taxes.

The total gains of the entire country in these Federal taxes amounted to \$214,462,000, and the total losses of the states showing a decrease amounted to \$66,853,000, making a net gain of \$147,609,000 as already stated. A comparison by sections is worth studying in this connection.

Referring to the increase of income tax from cigarette sales it is interesting

INTERNAL REVENUE RECEIPTS FOR THE FISCAL YEAR 1929, COMPARED WITH THE FISCAL YEAR 1928.

(Compiled from the Report of the Internal Revenue Bureau of the Treasury Department, issued July 8.)

Geographic Division and State	Total Tax Fiscal Year 1929	Increase Compared with 1928	Decrease Compared with 1928
Maine	\$8,688,968.20	\$219,371.23	.....
New Hampshire	3,978,305.36	.....	\$16,144.45
Vermont	2,363,378.89	60,675.86	.....
Massachusetts	115,520,654.25	10,103,268.03	.....
Rhode Island	14,114,507.19	.....	655,927.24
Connecticut	42,207,924.54	6,093,784.78	.....
New England	\$186,873,738.43	\$16,477,099.90	\$672,071.69
New York	\$843,312,795.34	\$90,127,772.20	.....
New Jersey	121,446,998.46	15,845,136.93	.....
Pennsylvania	237,576,472.03	.....	\$9,166,212.57
Middle Atlantic	\$1,202,336,265.83	\$105,972,909.13	\$9,166,212.57
Ohio	\$142,497,283.82	\$2,810,285.21	.....
Indiana	28,097,172.86	.....	\$6,597,613.76
Illinois	238,249,311.90	16,229,650.38	.....
Michigan	151,423,929.54	.....	22,554,297.46
Wisconsin	39,217,725.02	.....	8,933,861.15
East North Central	\$599,485,423.14	\$19,039,935.59	\$38,085,772.37
Minnesota	\$29,069,366.24	\$1,224,493.71	.....
Iowa	13,431,725.37	1,449,415.57	.....
Missouri	65,857,819.75	772,839.99	.....
North Dakota	709,885.31	.....	\$78,607.10
South Dakota	827,618.78	82,227.50	.....
Nebraska	6,179,699.69	447,031.47	.....
Kansas	17,934,706.64	.....	1,371,575.94
West North Central	\$134,010,821.78	\$3,976,008.24	\$1,450,183.04
Delaware	\$30,309,528.07	\$9,391,884.04	.....
Maryland and District of Columbia	51,740,574.77	3,243,915.39	.....
Virginia	87,483,133.29	3,788,261.71	.....
West Virginia	14,261,354.03	.....	\$1,620,866.43
North Carolina	254,494,957.85	29,179,654.32	.....
South Carolina	3,657,326.40	.....	240,085.39
Georgia	14,054,682.40	.....	128,665.20
Florida	21,388,026.92	.....	2,096,342.18
South Atlantic	\$477,389,583.73	\$45,503,715.46	\$4,085,959.20
Kentucky	\$25,262,707.87	\$1,252,272.28	.....
Tennessee	17,987,139.09	151,387.50	.....
Alabama	8,156,037.34	.....	\$491,626.04
Mississippi	2,516,176.29	.....	244,257.08
East South Central	\$53,922,066.59	\$1,403,659.78	\$735,883.12
Arkansas	\$3,666,980.85	.....	\$665,040.74
Louisiana	15,081,175.03	\$866,741.36	.....
Oklahoma	17,940,513.26	.....	2,574,374.27
Texas	39,468,429.80	.....	7,864,098.24
West South Central	\$76,157,098.94	\$866,741.36	\$11,103,513.25
Total Southern States*	\$643,017,034.94	\$39,155,072.55	\$15,925,355.57
Montana	\$4,427,552.50	\$1,449,113.10	.....
Idaho	1,089,618.24	.....	\$54,813.27
Wyoming	1,166,890.48	.....	999,993.24
Colorado	11,539,424.05	.....	339,876.28
New Mexico	965,354.52	176,777.59	.....
Arizona	2,398,878.36	478,716.69	.....
Utah	3,612,216.37	.....	159,222.61
Nevada	1,144,224.70	\$41,375.38	.....
Mountain	\$26,344,159.22	\$2,445,982.76	\$1,553,905.40
Washington and Alaska	\$14,163,717.43	\$1,274,612.34	.....
Oregon	6,185,310.70	75,927.49	.....
California	154,643,529.54	17,425,415.91	.....
Pacific	\$174,902,567.67	\$18,775,955.74	.....
Total	\$2,931,511,709.33	\$214,462,007.96	\$66,853,500.64

*Includes Missouri, tabulated in West North Central group of States, and excludes Delaware.

to note, according to a pamphlet recently issued by the Equitable Trust Company of Baltimore, that whereas in 1920 the average monthly cigarette sales amounted to 4,032,440,000, the average monthly sales for 1929 were 9,111,381,000, an increase of 125 per cent in that short period.

The statement of the Equitable Trust Company says that the American people

are now smoking cigarettes at the rate of 9,111,381,000 monthly, whereas just one year ago, or 1928, the monthly consumption was 7,950,500,000. The record is one which may well distress the American people as to the seriousness of this enormous consumption of cigarettes, stimulated by a kind of publicity which seriously reflects upon the good judgment of the cigarette makers of the land.

Remarkable Achievements of a Remarkable Class of the University of Georgia

[An inspiring illustration of the power of education, of friendship and comradeship, and of the inherent abilities of Southern men. Can any other class of the same size, North or West, fully match this record?—Editor MANUFACTURERS RECORD.]

Judge E. T. Moon of LaGrange, Ga., has recently published an illustrated book entitled "Achievements of the Class of '93, University of Georgia." In his preface he gives a very remarkable statement in regard to the graduates of that class as to the way in which comradeship has existed between them and the number of men who have attained to fame for the work they have done. In this preface Judge Moon says:

"The worthwhile accomplishments of this famous class has made '93, Georgia, immortal. It has furnished one United States Senator, two governors, two presidents of the state senate, one speaker of the House of Representatives, one United States judge, the dean of the medical college, Augusta; legal advisor to President Coolidge in the military department, compiler and author of the code of Georgia, two members of Congress, president and editor Southern Medical Journal, legal advisor to the Governor-General of the Philippine Islands, special counsel for the governments of Mexico, Brazil, Guatemala and Chile; special representative of the Korean Government and Emperor of Korea in peace conference, 1905; special counsel imperial Russian Government, 1905 to 1912; two of the greatest pulpit orators and distinguished doctors of divinity, one Baptist and one Presbyterian, in the country; one judge Court of Appeals, five Superior Court judges, eight City Court judges, several pre-eminent captains of finance and industry, an inventor with forty practical and useful inventions to his credit; consulting engineer to Thomas A. Edison, two brilliant editors and writers, a number of trustees of colleges and universities throughout the South, the leading professor of engineering of Stanford University, advisory counsel of the Great Western Railway of England; several big bank and corporation presidents, nineteen members of the Legislature, eight state senators, the author of the final report of the occupation of Cuba, one distinguished colonel United States Army; some of the leading diplomats and members of the consular service

now stationed throughout the countries of the world.

"One of the unusual characteristics of this group of college men is its social, spiritual and political cohesiveness. The members of this class on June 23, 1893, with their 'dips' in their hands, assembled under Toombs Oak on the campus at Athens and took a pledge to stand by each other in the battles of life to follow. They have stood. Today touch one and you touch all. Test the strength of one and you feel the power of all."

\$750,000 FERTILIZER PLANT

Work to Start Soon on Texarkana Project

Texarkana, Ark.-Tex. — Construction will soon begin here on one of the largest fertilizer factories west of the Mississippi River, according to L. C. Cargile, president of the Texarkana Chamber of Commerce. The enterprise will represent an investment of \$750,000, it is said, and will be undertaken by the International Agricultural Corp., New York, which plans to utilize a 20-acre site on the St. Louis Southwestern railway. Trackage facilities will be constructed at once at a cost of \$20,000. In addition to the factory the company will establish sales offices for Arkansas, Oklahoma, Texas and Louisiana. It operates a number of Southern fertilizer factories and is said to own large phosphate rock mines in Florida and Tennessee.

\$650,000 High School Bonds

Lubbock, Tex.—Lubbock independent school district, J. F. Hutchinson, president of the School Board, and A. C. Jackson, business manager, voted a \$650,000 bond issue to erect a 3-story building for a senior high school, for which Strange & Bradshaw, Big Spring and Lubbock, are the architects.

Paducah's New Hotel

The new Hotel Irvin Cobb, erected at Paducah, Ky., by Adolph Weil of that city, is considered one of the finest in the South. The structure is of old English architecture of the Tudor period, 8 stories and basement, of reinforced concrete, brick, steel and stone construction, and contains 200 rooms and as many baths. Five complete sample rooms are located on the second floor of the building, while the dining room is one of its striking features. A large convention hall and roof garden are also important. The ground floor provides space for a number of shops. Walter W. Ahlschlager, Inc., Chicago, was the architect, B. E. Buffaloe & Company, Memphis, general contractors. The hotel was formally opened last spring under lease to the Memphis Hotel Company, A. L. Parker, president; Howard M. Wisotzkey



Hotel Irvin Cobb, Paducah, Ky.

is manager. Sub-contractors engaged on construction included the following:

Cast stone—White Stone Co., Inc., Memphis
Cut stone—Southern Cut Stone Co., Bowling Green, Ky.
Electric wiring—S. D. Dalby Electrical Co., Paducah
Elevators—Shepard Elevator Co., Memphis
Elevator fronts, kalamoin doors, steel partitions and revolving doors—Aker & Co., Memphis
Glass and glazing—Blinswanger & Co., Memphis
Hardware—House-Bond Hardware Co., Memphis
Mail chute—Cutler Mail Chute Co., Rochester, N. Y.
Metal weatherstrips—Memphis branch of Chamberlin Metal Weather Strip Co., Detroit, Mich.
Millwork—Sherrill-Russell Lumber Co., Inc., Paducah
Miscellaneous and ornamental iron and structural steel—Pidgeon-Thomas Iron Co., Memphis
Painting—Sanderson & Hancock, Paducah
Plastering—H. S. Sutton, Memphis
Plumbing, heating, refrigeration and insulation—J. W. Hull Plumbing & Heating Co., Memphis
Reinforcing steel—Connors Steel Co., Birmingham, Ala.
Roofing—W. B. Waddell, Paducah
Screens—Higgins Screen Co., Newport, Ky.
Sheet metal work—J. P. Warner Sheet Metal Works, Memphis
Stack—Dan Shea Boiler Works, Memphis
Steel windows—Memphis branch of Truscon Steel Co., Youngstown, O.
Tile and terrazzo—Southern Mosale Co., Inc., Memphis
Waterproofing—Waterproofing Company of America, Chicago.

Credit Situation and Its Effect on Business

To what extent is tight money affecting business? This question and others relating to the credit situation were discussed last week in these columns by a number of readers who replied to the queries as published on the cover page of the MANUFACTURERS RECORD of July 4. Other letters, received too late for publication last week, are given in the following:

A Banker's View of How Credit Situation Affects Business

Nashville, July 12.

Editor Manufacturers Record:

We feel that Federal Reserve credit policy has had very little real effect on business. Continuous warnings have probably caused quite a little uneasiness, but actual results have not been important or serious.

In our opinion the reserve officials have not been able to do what they intended to do, that is, to deflate brokers' loans. The attempt to check loan expansion began in February, 1928, by increasing the rediscount rate of the New York Federal Reserve Bank to 4 per cent from 3½ per cent. This increase was made February 3. On February 1, brokers' loans stood at \$3,815,820,000. At present these loans total \$5,769,000,000. Thus in a period of 17 months brokers' loans increased \$1,953,000,000. In the previous 17 months' period these loans increased only \$1,075,000,000. In view of the fact that these loans increased nearly twice as fast during this 17 months of active opposition from the reserve officials as for the previous 17 months, we think there is no question that the entire effort may be ranked as a failure.

In a general way we think the effect of the tight money policy on business has been negligible. Legitimate business has not suffered for funds at reasonable rates.

In the first place there has been an unprecedented demand for common stocks. In consequence it has been possible for practically any well known corporation to sell stocks on a yield basis of 4 per cent to 6 per cent. In many cases leading corporations have sold stocks to yield less than they could have raised funds through bond issues.

It is quite evident that nothing has hurt business seriously. Take steel, for instance. Figures just issued show that in June the output was more than 90 per cent of rated capacity of all the mills. This established a new high record for June production.

Automobile industry is even more important than steel. Figures for June show that production was a high record for that month. Furthermore, with new models in early prospect and the country more than normally prosperous, there is little reason to doubt that output for 1929 will reach a peak for all time.

If there is any further evidence needed

to prove that business in general is not only good, but above normal, revenue freight car loadings supply the proof. With the increasing volume of freight handled by trucks, it would not be at all surprising if freight tonnage carried by railroads were to show some decline as compared with previous years. The fact is, however, that for the first 24 weeks of this year there were 961,454 more cars loaded than for the corresponding period in 1928. In our opinion, car loadings for the entire year 1929 will establish a new high record for all time. The actual car loading record this year is extremely impressive. It is impossible to say how many thousand car loads of freight have been moved by truck this year, but we think that anybody will agree that more truck freight is now being moved than ever before.

It is true that building has slumped in recent months. This has frequently been attributed to the difficulty of financing construction work through bond issues. It may be difficult to say with certainty that high interest charges are the sole, or even the principal cause, for the building slump. However, there is one encouraging fact to consider. If the cause of reduced volume of building is high interest rates, then there must be an accumulating building shortage. If that is true, then as soon as demand for funds for other industries ease there will probably be active building that will tend to stabilize business at a fairly high level.

There is, beyond question, plenty of potential bank credit for all legitimate business and enough left over to finance a rising stock market for a long time to come. Not only that, but we doubt whether it will be possible to prevent both business men and speculators from getting all credit wanted. Certainly they have succeeded in getting a plentiful supply up to now. There is no reason why they should not continue to be supplied.

The reserve officials themselves have repeatedly stated that they favor a plentiful supply of credit for legitimate business. And although they have actively opposed the expansion of brokers' loans that opposition seems to have had no restraining effect at all.

There is no question but that we have the best banking system in the world. At times the administration of this great system has not been above criticism. Nevertheless we should remember that the Federal Reserve officials have a great responsibility. In a sense they are sailing uncharted seas. Naturally they move with a great deal of caution.

We have disagreed with the reserve officials at times and have stated our reasons for so disagreeing. Nevertheless we are quite sure that on the whole the record of our banking system has been excellent.

CALDWELL & COMPANY.

Thinks Business Is What You Make It

Pioneer Life Insurance Company.

Greenville, S. C., July 12.

Editor Manufacturers Record:

The questions on your cover page July 4 remind me of one that was asked me by one of our directors some years ago.

He asked: "Which month in the year is the best month for writing life insurance?"

My answer was: "The month you go after it the hardest."

Frequently we are asked the question, "How is the world treating you?" Personally, I have but one answer: "Just about like I'm treating the world. I can't see much difference."

You ask what are the prospects for better business. I think they are just as bright as we are men enough to make them; 1928 was a record year with us, but so far 1929 is running 60 per cent better, and by December 31, 1929, if we live, we expect to see it doubled.

T. OREGON LAWTON, President.

Wants a Moses to Lead Us Out of Business Wilderness

Bessemer, Ala., July 12.

Editor Manufacturers Record:

In your July 4 issue, certain questions are asked regarding tight money and to what extent it affects business; whether or not there is an abundance of money for business matters; and if it is tight money that is affecting present business conditions, what the prospects are for the condition being relieved and if it is not tight money, what is affecting business, and so on.

I am not a political economist, neither am I a student of finance. I think there is no scarcity of money in this country, but I think that much money has been diverted from the usual channels of legitimate business to wild speculation. I think there is a tightness of money and that its diversion from the usual legitimate channels to speculation is the main cause. There are other things affecting business, notably concentration of wealth through the medium of chain stores and big mergers. The present enormous unemployment is not due so much to a lack of business but to the tremendous extent to which operations in every line are now had without manpower and to my mind the ultimate result of this situation is the one great question, Will means be developed by which surplus labor, especially common labor, may be absorbed?

These are questions for the great minds of the country and I merely suggest them hoping you may procure

some light on them. Certain large interests are making a great mistake in that they are manufacturers as well as wholesalers and retailers. It is obvious that if the manufacturer uses his influence to prevent a general distribution of wealth he is blazing a way that will ultimately lead to his own destruction.

P. M. MATHEWS,
Mayor, City of Bessemer.

More Money Not More Credit, This Writer Says Is Our Need

Clarksdale, Miss., July 8.

Editor *Manufacturers Record*:

Replying to your questions, I will ask, How can a tariff help a cotton raiser in the South as long as Liverpool fixes the price of the world's supply of cotton?

The tax on state bank issues of money was first placed at 3 per cent, but that didn't stop the state banks from issuing money; then it was raised to 10 per cent, which did the work.

If we find out who is benefited by that tax we will locate the Nigger in the Woodpile.

We have not money enough but have bank credits and currency to throw at the birds, and all kinds of conduits to syphon that money to New York.

I don't care to give you any guff about your "Valuable Publication," for the fact that I have been a subscriber for many years attests my appreciation more than mere words; but I know of no journal better calculated to make a fight to free the farmers from the clutches of big business than yours.

We need more money "receivable for all debts, public and private," not bank credits and currency as we have it now.

The theory is that this is a government of the people, by the people and for the people. But is it?

F. M. BOONE.

Bankers and Big Business Interests May Be at Fault

N. C. Hughes, Jr., a contracting engineer of Columbia, S. C., writing on this subject, said:

"On the cover page of your issue of July 4 you asked the questions; first, if there really was tightness in finances for business purpose, especially in the South; and, second, if so, what was the basic cause for such a condition.

"On the cover page of your issue of July 11, in the opinion of the writer, you answered to a large degree your own questions. The disclosures you make are such as should give business men, including bankers, pause and serious concern. There can be no question as to the truth of the statements, or to the validity of the stand you take. The appalling phase of the situation is that the common, everyday people throughout the land have already realized that something is wrong, and badly wrong; but few of them, if any, seem to know exactly what that wrong is. Even did they know, they are powerless to correct the evil.

"Though the two branches of business you mentioned, no doubt, are to a large

extent responsible for some of the sparsity of currency in certain sections, yet, in my opinion, there are other lines of business conducted by big business that may justly be numbered with the transgressors. These lines are making a daily drain upon the floating cash supply of the country. They are taking the bulk of it out of the country, the small towns and large, and dumping it in oceanic streams into the big money markets of the East.

"Also it is rumored that certain banking institutions have been straining upon their supplies of currency by allocating large sums of it to the stock market centers for the purpose of getting the extra high rates of interest that have obtained there for some time.

"To these and other like transactions and methods may the tightness of money and rottenness of business be attributed, in so far as the agricultural South is concerned.

"From complete stagnation and collapse of legitimate business in the near future may the good Lord deliver us!"

Spread Abroad the Facts

C. C. Edwards, a dealer in real estate, loans, timber and lumber, writing from Durham, says:

"Please accept my thanks for your front page cover issue of July 11, entitled 'Drying Up the Springs That Fertilize Local Business.'

"I only wish every business man and banker in the United States could get the facts as stated by you; in my opinion they are true. I hope you may be able to reach our Congressmen and that some law will be passed to protect the nation from a financial ruin."

Sleepers Should Awaken

From Stough Hopper, of Shelby, N. C., comes the following:

"I have read and reread your editorial in the issue of July 11, 'Drying Up the Springs That Fertilize Local Business.' I think a copy of this should be in the hands of every banker and manufacturer in the country. It might be that some of them would awake from their sleep, and try to curb things before it is too late."

Gambling in Stocks Regarded As the Seat of Many Evils

E. H. Wilkerson of the Wilkerson Realty Company, Panama City, Fla., writes:

"I have read a good many articles in your magazine on stock gambling, but the one on the front page of your issue of July 11 is the keynote to the whole situation.

"Will the well never fill up? Where is the sink hole? We have watched sales of stock mount from over 2,000,000 shares a day to over 6,000,000 shares a day and seemingly the gain is like a snowball rolling down hill. Almost daily we read of banks closing their doors and no doubt 90 per cent are closed directly or indirectly due to stock gambling. Where will it end? I do not believe it will end unless the Government can stop it. Men making or losing money in that way will not build a home; they will not develop. That is what is the matter with real estate; no one wants it. Many will tell you they can rent cheaper than they can own a home or a place of business. It is true that the big rich are buying property, but they establish a value and they will not pay what the property is worth. They can afford to buy and hold this property, pay the taxes and all upkeep and really make by it, for it helps to cut down their income tax. But the poor man cannot hold his home or his property, because in many instances times and conditions have so changed that he cannot live as he once did; he must seek new ways of making money and a living and in order to do so he must sell his holdings and go elsewhere.

"Thomas W. Lawson told us years ago through his book, 'Frenzied Finance,' what would happen, and at that time it taught the writer to leave all stock gambling alone, but whether I have profited or lost by it is a question. I agree with every writer on the subject that money should be left in the thousands of banks for legitimate use and not be transferred to any one center for any purpose, much less for call money use. Is all the money to drift into the hands of a few and the main public to work for the few? Picture the result."

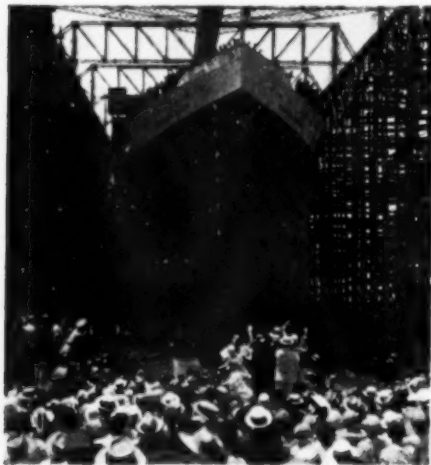


West End High School Now Being Constructed at Richmond, Va. This Building, 310 Feet by 210 Feet, With Exterior of Stone Over a Concrete Shell, Is to Cost \$850,000. Charles M. Robinson, Richmond, Is the Architect, and the National Construction Co., Atlanta, Ga., Is Contractor.

SOUTH LAUNCHES LARGEST COMMERCIAL VESSEL

34,000-Ton Liner Built for Panama Pacific Line at Cost of \$7,000,000

The recent launching of the 34,000-ton turbo-electric liner, *Pennsylvania*, at Newport News, Va., for the Panama Pacific Line of the International Mercantile Marine Company, New York, perhaps aroused more general interest than any other similar event in the history of the country. This great ship, said to be the largest commercial vessel ever built in America represented a cost of \$7,000,000 and is the third unit of the



Liner Launched at Newport News

International Mercantile Marine Company's building program, designed for coast to coast service. Upon completion by the builders, the Newport News Shipbuilding & Dry Dock Co., she will be placed in service at New York leaving there October 19, booked to capacity on her maiden voyage to San Francisco, via the Panama Canal. The ship is 613 feet long, has a beam span of 80 feet, a depth of 100 feet from the upper deck to the keel and will have an average speed of 18 knots. There will be stateroom accommodations for 800 passengers, equally divided between first cabin and tourist cabin, while the cargo holds will have a capacity of 10,000 tons of perishable and semi-perishable freight.

Although the vessel is virtually a duplicate of the *California* and *Virginia*, now in the coast to coast service of the Panama Pacific Line, her builders are said to have been able to add refinements which make the vessel, in their estimation, the finest ever constructed in an American shipyard. At the instigation of P. A. S. Franklin, president of the International Mercantile Marine Co., public rooms of the ship have been decorated to commemorate the history of the state of Pennsylvania, the work being carried out by the Barnett Phillips

Co., New York, Phillip Kiesecker, associate.

Motive power machinery, made by the General Electric Company, Schenectady, N. Y., was designed for turbo electric drive and otherwise complete electric operation, including the operation of auxiliaries. Of twin screw design, each propeller is driven directly by an 8500-horsepower motor, electricity being generated by two marine type steam turbines, each rated at 6,750-shaft horsepower (2,640 revolutions per minute), the latter corresponding to approximately 110 revolutions per minute, propeller speed. The turbines are each directly connected with an alternating-current generator, rated 5259 kilowatts, 2,640 revolutions per minute. Steam for driving the turbines is furnished by 8 Babcock & Wilcox water tube boilers equipped with oil burners. The twin driving motors have a collective horsepower of 17,000 and the vessel's fuel capacity is sufficient for the round trip of 11,000 miles between New York and San Francisco.

86-MILE TRANSMISSION LINE

Central Power and Light Company Also Making Other Extensions in Texas

The Central Power and Light Company, San Antonio, Tex., is surveying and purchasing a right-of-way for a 66,000-volt transmission line, approximately 86 miles long, between Laredo and Asherton, Tex., where it will connect with the company's Winter Garden-Del Rio transmission system. Practically all material has been purchased and construction contract awarded to the L. E. Myers Co., Dallas. Work is expected to begin within 30 days and the line completed by the middle of October. The substation at Asherton will be enlarged and a new substation erected at Laredo, which will join the high power transmission line with a lower voltage line running to the company's Laredo power plant. Improvements will also be made to the Laredo power plant, involving the enlargement of the building, the installation of a new switchboard and provision for storeroom facilities. The Laredo distribution system will be improved by the erection of 11,000-volt lines along the edge of the city to serve as feeders. To complete the direct electric connection between Laredo and San Angelo, the company will build a 66,000 volt transmission line from Uvalde to the north boundary of Edwards County, where it will connect with a line to be built by the West Texas Utilities Co., Abilene, to complete the connection with San Angelo.

The Kind of Spirit That Is Making Florida

Daytona Beach, Fla., July 17.

Editor *Manufacturers Record*:

I have your letter and thank you for it, as well as for the telegram you sent to the *News Journal* for publication. That is good stuff, and it will help many fainthearted.

There are, however, a good many of us in Florida who don't need it. We have, like you, been through a world of troubles here and elsewhere, and we don't intend to let any mere bank ruffle us to the point of despair, or to the point of losing our equanimity.

We have always regarded those troubles as coming to prove that the blood of our forefathers flows through our veins; and we would be ashamed not to be able to demonstrate that the blood is still virile.

Here is one hombre who has been in Florida nearly four years, and who during 49 years of residence in Northern states learned about booms and their losses, and cyclones; their damages, bank failures and their damnable aftermath; all learned up North, mind you; and who has let the boom alone down here, and dodged its aftermath; who has passed through the storms unscathed, and who has already written off the losses in the bank failure here last week, even though they hurt for a day; and who is confidently looking forward to the future and sticking in Florida till death do us part. We had one jolt that Providence threw in for variety, the Mediterranean fruit fly, but we fought our grapes through this year to good dividends in spite of it, and in spite of all the dark brown tastes of the last four years. We have good blood from our ancestors, and the future will prove it.

Did I send you a sales letter with a case in point?

Dear little Patricia Thompson here, nearly four years old, was being told the Bible story of Noah and the Ark, built on dry land. After emphasizing how Noah's neighbors sneered at him for a fool, her father asked her what reply she thought Noah made to his detractors. Patricia gave this historic answer, for which I am eternally thankful, though it did embarrass her dad:

"Hunh," said she, "I think Noah said 'That don't mean a damn thing in my business.'"

Please put me down for Daytona Beach and for Florida as following in Patricia's footsteps in our own and other bank failures.

EDGAR M. DUNN.

\$750,000 Bonds for Utilities Plant

Jackson, Tenn.—City commissioners have passed a resolution requesting an election for August 1 on a \$750,000 bond issue to purchase or build an electric light, power and gas plant, either one or both. The bonds would bear an interest rate of 4½ per cent.

EIGHTY-EIGHT NEW CONCERNS ESTABLISHED IN ATLANTA SINCE JANUARY

Business Reports Show Trade Gain of 40 Per Cent Compared With Last Year

Based on records of the Industrial Bureau, Atlanta reports the establishment of 88 new concerns in the city since January, making a total of "590 new concerns, 14,589 new jobs, \$25,241,050 of new annual payrolls during the three and one-half years since forward-looking Atlanta citizens first invested their money in the great movement to speed the city's growth. A 2500 per cent return on the investment is excellent vindication of their judgment."

This great showing is mainly due to Atlanta's big publicity campaign through the MANUFACTURERS RECORD and other papers.

The July issue of Forward Atlanta calls attention to the fact that business in Atlanta is currently running about 40 per cent ahead of the same period for 1928, and announces that several companies are to reveal big plans for development that will take place in Atlanta shortly.

"In the past three and a half years the whole state of Georgia has experienced a stimulation in its growth. For example, along the lines of the Georgia Power Company alone the new industrial developments have totaled more than \$40,000,000."

\$2,000,000 Rail Extension

San Angelo, Tex.—Plans are being made by the Abilene & Southern Railway Co., identified with the Texas & Pacific Railway Co., to extend its line from the present terminus at Ballinger to San Angelo, a distance of 38 miles. The project also contemplates the rebuilding of the Abilene & Southern from Abilene to Ballinger and work on this part of the program is expected to begin at once. Application will be made to the Interstate Commerce Commission for authority to build the new extension, which would traverse a rich agricultural territory in Runnels, Concho and Tom Greene counties. The project is estimated to cost \$1,500,000 to \$2,000,000.

Bids on \$500,000 Atlanta Depot

Atlanta, Ga.—Bids will be opened July 29 for erecting a new \$500,000 passenger depot here for the Nashville, Chattanooga & St. Louis Railway. The new station will be located at the Forsyth street viaduct and will be of steel and reinforced concrete construction, L-

shaped, 164 by 150 by 75 feet, one story with the ground floor on a level with the viaduct. Exterior walls will be of face brick and Indiana limestone. McDonald & Co., are the engineers and Robert S. Fiske, consulting engineer, both of Atlanta.

\$585,000 School Contracts

Livingston, Ala.—Two school building contracts exceeding \$585,000 have been awarded by the building committee of the State Board of Education, Montgomery. E. R. Maynard, Birmingham, was awarded contract at \$328,000 to erect an administration building, dormitory, heating plant and auditorium at the Livingston Teachers' College, while contract was awarded to J. C. Blalock, Florence, Ala., at \$257,978, for an administration building, dining hall and dormitory for the Normal School for Negroes near Huntsville. Warren, Knight & Davis, Birmingham, are the architects for both projects.

\$4,000,000 CYANAMID PLANT BEGUN

Initial Construction Gets Under Way at Tampa

Tampa, Fla.—The first construction on the proposed \$4,000,000 superphosphate plant here for the American Cyanamid Co., New York, has been started by the Gulf Construction Co., New Orleans, which has the contract for a 1050-foot dock. The plant will be built on an island of 40 acres to be built up in the bay 2200 feet from shore and connected with it by a railroad and highway. It is planned to erect 15 principal buildings, with a similar number of minor structures. The dock will be L-shaped, supported by 600 wood piles. Dredging and bulkheading to cost about \$250,000, are expected to be finished within six months, and a channel 4400 feet long and 27 feet deep, with a bottom width of 150 feet will be dredged from the main harbor channel to the site. Engineering and construction will be handled for the most part by the company, the work being in charge of H. L. Mead, head of the company's operations in Florida, and J. A. Mortland, engineer in charge.

Manganese Producers to Meet

The annual convention of the American Manganese Producers Association will be held at the Mayflower Hotel, Washington, D. C., September 9-10. A review of the industry will be presented and persons interested in the development of the domestic manganese industry are invited to attend the meeting.

\$18,000,000 RECLAMATION PROJECTS

Work Under Way on Three Texas Jobs

The Trinityfarm Construction Company, Dallas, Tex., which has contracts for a \$7,500,000 project at Raymondville, Texas, for the Willacy County Water Improvement District No. 1; for a \$6,000,000 project at Cotulla, Texas, for the La Salle County Water Improvement District No. 1, and for a \$4,325,000 project at Dallas for the City and County Levee Improvement District No. 10, announces that 42 per cent of the last named project has been completed. This work involves the reclamation of the Trinity River Valley and the following equipment is on the job: Four 3-W, two 4-W and two 6-W Monighan draglines. As sub-contractors, Vilbig Bros., Dallas, are operating one class 14 Bucyrus dragline and J. B. Dunaway, Dallas, one 1½ Northwest dragline and 4 Caterpillar tractors pulling 7-yard Western dump wagons. Cement work is being done under a sub-contract by the James Contracting Co., Dallas. The Trinityfarm Construction Company expects to begin construction within 60 days of a 20-inch dredge to handle about 4,000,000 yards of suction dredge work.

On the Cotulla project, the company has installed a 3-W Monighan dragline, which has just been put in operation, while the clearing and grubbing on the impounding river dam site and parts of the main canals have been in progress since May. One 3-W and two 2-W Monighan draglines are operating on the earth work in the sub-main canals of the Willacy County project, while it is planned to install three additional Monighan draglines of 4 to 6-yard capacity. None of the Cotulla or Willacy County work has been sub-let as yet.

West Texas Utilities Co. Carrying Out Big Expansion Program

Abilene, Tex.—Authority has been granted the West Texas Utilities Company to increase its capital stock by the issuance of 50,000 shares of no par value, representing an addition of approximately \$4,800,000. Funds from the sale of the stock will be used to carry on the company's expansion program for the remainder of the year, including the beginning of work on a dam and power project at Lytle Lake south of Abilene. Approximately \$2,000,000 additional will be expended for additional facilities in the southwestern part of the company's territory to take care of oil pipe line pumping requirements, the project also involving the construction of a dam on the Concho River and the enlargement of the generating station at San Angelo.

IRON, STEEL AND METAL MARKET

Steel Keeps Its Fast Pace

Pittsburgh, July 22—[Special.]—There is no summer lull in steel production, and that is unprecedented. The phenomenon is not as remarkable as it seems to be by comparison with other years, for there has never been an altogether satisfactory explanation of the familiar lull. In the last four years the low rate of production, generally in July but last year in June, was 15 to 27 per cent under the preceding peak rate, with increases thereafter except in 1927, which had a poor second half. One would not expect consumption of steel to decrease and then revive just at the middle of the season for outdoor work.

Whether or not there will be an increase in demand later in the year remains to be seen. Precedent would indicate an increase but precedent has already been violated. There is no particular place for increased demand to come from since demand is heavy nearly all along the line but there might be small increases in various lines which would make an important aggregate.

Even now the steel mills are not entirely caught up in deliveries. Plates can hardly be obtained on new orders in less than a month or more and there is some delay in shapes on miscellaneous orders, but deliveries to fabricating shops on the large jobs, subject to regular schedule, are being made satisfactorily. Recently the merchant bar mills caught up. Some of the sheet mills are behindhand, others are not. In wire products and pipe there has been no delay at any time, these lines being the least active of the finished steel products.

In some quarters it is estimated that there is a little decrease this month in the general rate of steel production but that is far from certain. It will require the official report of the month's production to determine definitely. The chances are production will be found to have been 5 per cent, but not as much as 10 per cent, below the peak rate, which was in May, and which was 13 per cent above the highest rate reached last year. Any decrease this month would be due chiefly to physical disability, including hot weather and failure of open-hearth units after this long period of hard driving.

The agricultural implement industry has been passing from one season to another in the character of implements made and there is now news that the industry expects a high rate of output for the next three months, much the same as it has had for a year past.

The automobile industry has had a

slightly greater seasonal decrease in activity than usual, despite the well sustained or increasing activity of the Ford Motor Company. Various makers are getting out new models, promising the usual increase in August over July production. It is normal for second half automobile production to run at least 15 per cent under that of the first half.

The general flow of orders in steel keeps up very well and is nearly equal to the outgo in finished steel shipments. With mills catching up, or caught up, in deliveries, somewhat lighter buying would be expected.

Fabricated structural steel lettings reported last week chanced to be light, only 26,000 tons, this following several weeks of exceptionally heavy lettings. On the other hand, fresh inquiries coming out made an unusually large total, about 75,000 tons. For months there has been unprecedented activity in the structural fabricating industry, yet it is commonly said that competition is very keen.

The price situation in the sheet industry has grown a trifle easier still. Automobile sheets seem perfectly firm at 4.10c while reports in some quarters of shading in blue annealed sheets are not confirmed. Galvanized sheets, which weakened a few weeks ago, are yet a little easier. The top of the market had been 3.70c and some mills formerly holding that price are now departing from it while at the same time they have abandoned efforts to obtain 2.95c on black sheets, receding to 2.85c, at which some mills have been selling right along.

Standard Sanitary Manufacturing Company has bought about 15,000 tons of Southern iron for second half delivery to its Louisville plant, the price being \$14, Birmingham, which is regarded as being 50 cents under the market. The Southern furnaces were anxious to get the company back as a customer. On account of price it had been buying southern Ohio iron. It will shortly buy for its two local plants, Allegheny and New Brighton. The valley pig iron market is dull and unchanged.

Slow Market for Pig Iron

Birmingham, Ala., July 22—[Special.]—The pig iron market is still considered slow, purchasing on the part of consumers aggregating a tonnage no greater than the make. Plans are under consideration to bring about curtailment of production in the near future. There is some disappointment as to market conditions following the last reduction of

quotations, now down to \$14.50 per ton, No. 2 foundry.

Home consumption of pig iron has been fairly steady with prospects of some of the larger melters requiring a large tonnage through the remainder of the year. Survey of the cast iron pressure pipe trade shows production active and shipments right up, contracts being delivered promptly. A few lettings have been booked recently but it is stated that unfilled tonnage is being reduced. In the foundries and machine shops there is great activity and much work is being rushed. The Goslin-Birmingham Machine & Foundry Company is finishing several Webb cotton presses built this year, these machines being of more than 100 tons weight. For many years, this shop has been manufacturing these presses, the orders being practically the same every year and the machines erected in time to catch the new crop. Other heavy work includes chemical machinery, sugar machinery, etc. One of the larger shops has given much attention this year to compressed air machines, a number having been built here and shipped to various parts of the country.

Stove foundries are active but their requirements will not aggregate any great tonnage of iron. However, these interests are served promptly. There are more stove foundries in this district than ever before and the industry is making progress.

Tennessee melters have been buying pig iron freely in the Birmingham district.

Furnace interests are firmly maintaining the \$14.50 per ton base. For the past three weeks there have been reports that round tonnages have been declined by interests here on a concession of 50 cents the ton, some business being turned down at 25 cents under the low base price. Reports as to curtailment of production persist to such extent that it would not be surprising to see three blast furnaces shut down during early August.

The steel trade is good, everything considered. The larger concerns as well as the smaller are active. Twenty-two open hearth furnaces are in operation, practically the entire number of the district. With few exceptions, the various mills are going to an extent of 85 and more per cent capacity. Gulf States Steel Company is finding a good market for billets and bars. The Connors Steel Company, producing hoops, bars, cotton ties, angles, etc., is operating its mill on full time; shipment of cotton ties with this company has not started in

full force as yet. The Tennessee Coal, Iron & Railroad Company is producing sheet, plate, structural and other shapes of steel in quantity and finding ready demand. There is still a slow market reported on wire and wire products, with warehouses well stocked with this class of steel. A better feeling in steel is noted than in pig iron. Fabricating shops are also maintaining activity with prospects of continuation.

There is no change in the coal mining trade. Production in the state is around 60 to 70 per cent capacity. The coke market is good as to foundry coke and quiet as to domestic coke; considerable of the latter will be accumulated, to be prepared a little later on when there will be a rush in the demand. Foundry coke is held at \$5 per ton and shipments are still headed towards the middle west.

Scrap iron and steel is sluggish. Some old material is moving but the total is far from being generally satisfactory.

Quotations for pig iron and iron and steel scrap are as follows:

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$14.50; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$15.00; iron of 2.75 to 3.25 per cent silicon, \$15.50; iron of 3.25 to 3.75 per cent silicon, \$16.00.

OLD MATERIAL.

Old steel axles	\$17.00 to \$18.00
Old iron axles	17.00 to 18.00
Old steel rails	13.00 to 14.00
Heavy melting steel	10.50 to 12.50
No. 1 cast	13.00 to 13.50
Stove plate	12.50 to 13.00
No. 1 railroad wrought	10.00 to 11.00
Old car wheels	11.00 to 11.50
Old tramcar wheels	11.50 to 12.00
Machine shop turnings	7.00 to 8.00
Cast-iron borings	7.00 to 8.00
Cast-iron borings (chem.)	13.00 to 13.50

Tin Livens Up the Metals

New York, July 22—[Special.]—Tin has continued to furnish the life to the metal markets. As some one has observed, consumers and traders left tin to itself when prices were low, but now that prices have been advancing rapidly it has become a very popular metal. Sales have been made at 47c per pound whereas until recently 45c was the going price. The new levels are the highest since March.

Tin has again been stimulated by the apparent progress in the formation of a tin producers association with intent of stabilizing prices at higher levels. Delegates from 167 British tin producing companies have met and agreed to form such an association, although they have drafted no policies to date. Eventually they hope to join with producers of other countries. At any rate prices have been climbing fast and consumers bought as much as 600 tons on some days, whereas their normal purchases are but 150 tons daily during the summer.

The principal development in copper was the issuance of statistics for June showing a universal reduction of produc-

tion by countries, though it is known that several individual companies have been increasing rather than reducing output. The volume of copper business has continued at the same low state and perhaps the most encouraging feature is that prices have held so well in the face of this dullness.

Lead and zinc have run counter to the other metals, being inclined towards weakness. Another definite price cut of \$3 per ton was made in lead, while concessions were made early in the week in zinc prices. Lead ore was also reduced again by \$2.50 per ton, or to \$85.

The steel industry continues to set a brisk pace for the non-ferrous metals. Thus steel operations are back to 95 per cent of capacity as against 70 per cent at this time last year. This is a very unusual gait for mid-July. Several prominent automobile manufacturers are about to announce their new models and have signified that after August 1 they will be buying large quantities of raw materials for the manufacture thereof. Building operations are not falling off, judging by the large amount of structural steel being called for. Though the statistical bureaus give unfavorable reports of building awards as compared with last year in dollars and cents value, the steel fabricators claim that the total building is holding up well and that the dollars and cents value has fallen off because keen competition among contractors has reduced the prices of building.

The minor metals have shown but little change. Antimony is perhaps a shade weaker in price, selling at 8½c per pound, duty paid. The two silvers are unchanged.

World production of copper declined over 18,000 tons during June. In the two Americas, total surplus stocks of refined and blister copper increased only 2000 tons, a more favorable showing than expected. Surplus stocks of refined copper increased nearly 13,000 tons, whereas predictions of a gain of 25,000 tons had been heard previously.

It might be said that guessing what the next movement in copper prices will be has become the favorite indoor sport of the business world. European consumers evidently expect lower prices, as judged by letters received here and by the steady declines in copper on the London Metal Exchange. On the other hand, the copper producers state they will stand pat on prices; that if they have held prices firm in the face of so many weeks of extreme dullness it will be easy to maintain them the few weeks longer before a buying movement is bound to appear. Export sales still average 1000 tons daily and open domestic sales are even less though fabricating subsidiaries are said to have bought

fair tonnages from parent companies quietly. What copper is purchased is for July and August delivery. Apparently no copper has been bought for September. Thus consumers have changed their buying methods entirely from the first part of the year when they were covering their needs 90 days ahead. Prices are unchanged at 18c for home delivery and 18.30c for export.

Tin consumers have been buying heavily, whereas if they had chosen to purchase ten days ago they could have saved themselves thousands of dollars. It was reported at the middle of the week that one steel company alone had bought 500 tons of Straits tin for September and October delivery for use in making into tin plate. Representatives of several tin producers in the Federated Malay States have said that they would not join the new tin producers association, or at least not until shown definite benefits.

The zinc market was rather weak and listless until Wednesday, when out of a clear sky the minimum price became 6.80c per pound, East St. Louis, as against the price of 6.67½c the day before. Zinc producers are convinced that big buyers are about to enter the market, which has inspired them to advance prices. It will take a few days to test the new price levels.

Lead now sells at 6.55c per pound, East St. Louis, and 6.75c, New York. Business improved following the price reductions. However, London prices are still weak and the market bears watching by buyers.

Railroad Properties Merge

Amarillo, Tex.—Plans have been made for merging the Kansas City, Mexico & Orient Railway Co. of Texas into the Atchison, Topeka & Santa Fe Railway Co., with principal offices here and J. R. Hitchcock as general manager. The Orient line from Wichita, Kan., to Altus, Okla., will be leased to the Atchison, Topeka & Santa Fe and the line from Altus to Alpine, Tex., has been leased to the Panhandle & Santa Fe Railway Co. The Orient line in Kansas and Oklahoma becomes a part of the Panhandle division, while the line in Texas is included in the Slaton division. A. H. Shaufler has been appointed assistant to the general manager of the Western lines with offices in Wichita, and R. L. Davis will be assistant superintendent of the Panhandle division with offices in Wichita. A. J. Cleary has been appointed assistant superintendent of the Slaton division with offices at San Angelo, all appointments effective August 1. Mileage of the Orient line in Texas is 465 miles and in Kansas and Oklahoma 271 miles.

AVIATION, AIRPORTS AND AIRWAYS

Total Airway Mileage 29,227

According to the Air Commerce Bulletin of the Aeronautics Branch of the Department of Commerce, there are 21,701 miles of airways operating in the

United States, or a total of 29,227 miles, including the foreign routes to Canada and South American countries. On the total operating routes, mail service was

given on 22,165 miles. The average airplane miles scheduled daily over all service lines were 69,029. The accompanying tabulation and map show the extent of air transport routes in the Southern states.

AIR TRANSPORT ROUTES TOUCHING SOUTHERN POINTS.

(Compiled from Air Commerce Bulletin.)

Domestic Routes	Airway Miles	Service†	Schedule	Originally Commenced	Present Operator
St. Louis to Chicago*.....	268	M & E	Daily	April 15, 1926	Robertson
St. Louis to Chicago‡.....	251	M & P	Daily	Aug. 20, 1928	Robertson
St. Louis to Omaha.....	401	M & P	Daily	May 1, 1929	Robertson
Dallas to Chicago*.....	995	M & E	Nightly	May 2, 1926	National
Kansas City to Chicago* (454 miles).....		M & E	Daily	Feb. 1, 1928	National
Wichita to Kansas City (175 miles).....		P	Daily		Wichita
Tulsa to Ponca City*.....	76	M & E	Daily	July 5, 1928	National
Louisville to Cleveland.....	345	M & P	2 times daily	Aug. 1, 1928	Continental
Atlanta to New York.....	769	M	Daily	May 1, 1928	Pitcairn
Washington, D. C., to New York (201 miles).....		M	6 times weekly	May 1, 1929	Pitcairn
Washington, D. C., to New York (201 miles).....		P	Daily	June 15, 1928	U. S.
Brownsville to Dallas.....	546	M & P	Daily	Feb. 6, 1928	Texas
Brownsville to San Antonio (265 miles).....		P	Daily	March 9, 1929	Texas
San Antonio to Fort Worth (281 miles).....		P	Daily	April 1, 1929	Texas
Galveston to Dallas.....	308	M	Daily	Feb. 6, 1928	Texas
Galveston to Dallas (308 miles).....		P	Daily	Mar. 30, 1929	Texas
Houston to New Orleans.....	319	M	Daily	Jan. 23, 1929	Gulf
New Orleans to Atlanta.....	483	M & P	Daily	May 1, 1928	Gulf
Miami to Atlanta.....	622	M	6 times weekly	Dec. 1, 1928	Pitcairn
Tampa to Daytona Beach.....	129	M	6 times weekly	April 1, 1929	Pitcairn
Atlanta to Chicago.....	623	M & P	Daily	Dec. 1, 1928	Interstate
St. Louis to Evansville.....	145	M & P	Daily	Dec. 1, 1928	Interstate
Los Angeles to El Paso.....	800	P & E	Daily	Nov. 28, 1927	Standard
Tulsa to Dallas (357 miles).....	327	P	Daily	Feb. 11, 1929	Braniff
Tulsa to Oklahoma City (98 miles).....		P	3 times daily	June 22, 1928	Braniff
Louisville to Indianapolis.....	108	P	5 days a week	Oct. 22, 1928	Capitol
El Paso to Dallas.....	575	P	Daily	Mar. 16, 1929	Texas
Tulsa to Wichita.....	132	P	2 times daily		Central
Dallas to Tulsa (308 miles).....		P & E	Daily	April 2, 1929	S. A. F. E.
Tulsa to St. Louis.....	358	P & E	Daily	April 2, 1929	S. A. F. E.
Sweetwater to Tulsa (371 miles).....	149	P	Daily	June 15, 1929	S. A. F. E.
Tulsa to Kansas City.....	215	P & E	Daily	April 2, 1929	S. A. F. E.

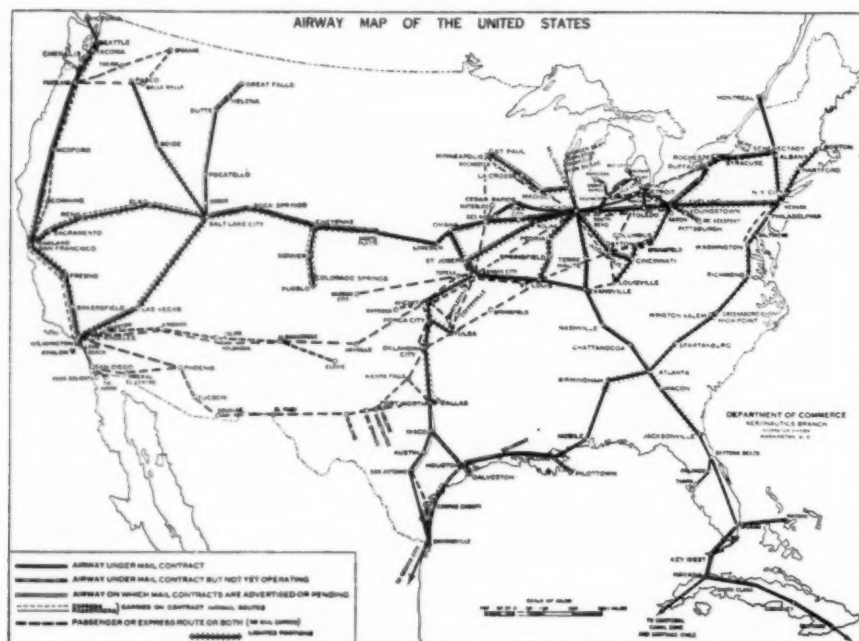
FOREIGN ROUTES

Pilotstown to New Orleans..	75	M	Variable	April 9, 1923	New Orleans
Habana to Miami.....	261	M & P	Daily	Oct. 28, 1927	Pan-Am.
Miami to Nassau.....	200	M & P	3 times weekly	Jan. 2, 1929	Pan-Am.
Miami to San Juan.....	1445	M	3 times weekly	Jan. 9, 1929	Pan-Am.
Cristobal to Miami.....	2074	M	3 times weekly	Jan. 11, 1929	Pan-Am.
Brownsville to Mexico City.....	472	M	Daily	Mar. 9, 1929	Pan-Am.

†M—Mail. P—Passengers. E—Express.

*Routes carrying express under contract with the Railway Express Agency.

‡Non-stop air line.



Bids on Unit of \$14,000,000 Flying School

San Antonio, Tex.—Bids will be opened August 15 by the Constructing Quartermaster, Capt. A. W. Parker, for the construction of the first unit of the \$14,000,000 flying school near this city at Randolph Field. Present construction will embrace a barracks building for 300 men, 470 by 75 feet, and five barracks for 250 men each, 368 by 75 feet, all to be of masonry wall construction with stucco, tile roofs, separate heating plants, kitchens and mess halls. There will also be five 1-story and three 2-story officers' quarters; 14 one-story and 46 two-story company officers' quarters, and 47 double non-commissioned officers' quarters of the same construction, and two warehouses and refrigerating plant of steel frame construction with tile roofs, the warehouses to be 90 by 485 feet.

Work Begins on Airport

Fort Worth, Tex.—Ground is being cleared at the airport site near Fort Worth of the Southern Air Transport, Inc., of which Tom Hardin, Fort Worth, is vice-president and general manager. A large administration building, including a ticket office and waiting room, will be erected, in addition to two hangars, 100 by 200 feet each, and a shop building, all of brick and tile construction with steel frame. Kenneth Franzheim, architect of the Aviation Corporation, New York, parent company of the Southern Air Transport, Inc., is preparing plans for the buildings.

\$425,000 Airport Planned

Oklahoma City, Okla. — An election will be held in this city July 30 on a bond issue of \$425,000 for developing a modern airport. A survey of the present municipal airport was recently made by the B. Russell Shaw Company, Inc., St. Louis, and a recommendation of such a bond issue to purchase additional land and make improvements was embraced in the company's report. It is proposed to enlarge the field to 360 acres, construct airway depot, administration building and hangar and install modern lighting equipment.

HIGHWAYS AND MOTOR TRANSPORT

Regional Planning Facilitates Growth of Cities and Towns

Growing Communities Solving Future Traffic Problem Through Cooperative Planning of Arterial Highways

By E. E. DUFFY.

Teaching a community how to grow is one of the businesses that has evolved from this machine age.

Towns and cities are no longer as self-contained as they were; their prosperity and development depend to a large degree on the prosperity of an entire area.

This has brought about the widespread application of city planning and its big brother, regional planning. Governmental agencies authorized or qualified to do the work for a city and its environs rarely exist. Whatever is to be accomplished must come through the activities of the citizens themselves who can be most effective through the medium of the city or regional planning body.

Of all the problems that the community of today has to face, that of the automobile and its attendant demands is of most concern. The travel fluidity of the car has caused the suburb and outlying districts to blossom. Adequate traffic arteries must be built and certainly there must be some directing agency to see that they are built and built where there is the most need.

Not all, of course, but most communities, are growing with fair rapidity. Many are growing at a fast pace, as Miami, for example, whose population has increased 128 per cent since 1925. In days gone by cities and towns grew without intelligent direction. Streets for the most part were confined to that age-old four-rod width. Without proper guidance, growing communities will find themselves still laying out the same old narrow routes which became inadequate about the time blacksmiths began giving up the anvil for automobile tools.

The city or regional planning commission is usually placed under the direction of an expert who is conversant with all the problems that go with community growth. He cooperates with all of the several local governing bodies to be found in any community. Through his suggestion and leadership a good look is taken at the future and then preparations are made for it.

This may seem somewhat as a luxury to the citizen and taxpayer, but the attainments of planning commissions indicate that through early consideration of inevitable problems, the citizen will not

only be saved money but he will be enabled to live in a better, more comfortable city.

South Carolina Asks Road and Bridge Bids

Columbia, S. C.—The State Highway Department, Ben M. Sawyer, chief highway commissioner, opens bids July 30 for the following road and bridge construction:

Barnwell County—0.222 mile of concrete in town of Barnwell

Kershaw County—Timber treated and steel bridge over railway tracks near Bethune

Lancaster County—Widen two reinforced concrete bridges between Lancaster and the North Carolina line

Laurens County—7.99 miles of concrete between Clinton and Kinard.

\$500,000 to Complete 150-Mile Road System

Columbia, S. C.—The Capital Highway District Commissioners, B. W. Crouch, chairman, Saluda, S. C., plans to issue \$500,000 additional bonds to complete the road system in this district, comprising Richland, Saluda and Lexington counties. Bonds in the amount of \$4,500,000 already have been issued. Contracts to complete the system have been awarded. The system covers about 150 miles.

Asks Bids on 48 Miles Roads

Oklahoma City, Okla.—Bids will be opened July 29 by the State Highway Commission for the construction of 8 road projects embracing a total of 48.38 miles of concrete, with alternate bids for asphalt on one project of 14.54 miles and brick on two, covering 1.5 and 9 miles, respectively.

\$3,000,000 Texas Roads Projected

Austin, Tex.—Road construction contracts aggregating \$3,000,000 are expected to be awarded by the State Highway Department July 31 and August 1. The work will be undertaken in 26 counties.

Kentucky Bus Lines Merge

Lexington, Ky.—Bus lines operating in Kentucky and Ohio, representing assets of \$1,575,000, have been merged into one organization, of which Howard W. Ivins, Cincinnati, Ohio, is president. Lines involved in the consolidation include the Barnes Brothers Louisville-Lexington Bus Service, owned by H. G. and H. O. Barnes, Lexington, who also own a half interest in the Gold Seal Transit Co.; Blue Coach Lines, Inc., operating between Cincinnati and Lexington; Dixie Coach Co., Cincinnati to Maysville and Cincinnati to Carrollton; Ohio Bus Line Co., Cincinnati to Hamilton, Hamilton to Middletown and Middletown to Sidney, Ohio; White-King Brothers Co., Cincinnati to Dayton and Dayton to Xenia, Ohio; Covington (Ky.) Interurban Bus Terminal Co., and the Intercities Management Co. The Gold Seal Transit Co. operates buses from Louisville to Corbin, via Harrodsburg to Danville, Ky.

Would Aid Road Construction in Central and South America

A bill introduced at the special session of Congress by Senator Oddie, recently named by the President as one of the United States delegates to the Second Congress of Highways at Rio de Janeiro, Brazil, authorizes the President, upon application from the Latin American republics, to detail engineers of the Bureau of Public Roads to assist in highway development. Secretary of Agriculture Hyde, has endorsed the bill, regarding which he said: "It is believed that timely and valuable assistance may be rendered Latin American countries by the United States, when such assistance is desired, in furnishing advice and assistance to their own engineers and highway officials as to the practical operations involved in properly designing highways and bridges and in the handling of materials and equipment for their construction in an economical manner."

Asks Bids on 118 Miles of Tennessee Roads

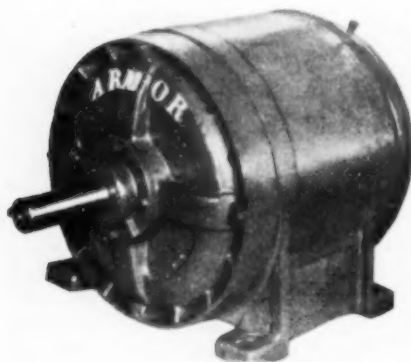
Nashville, Tenn.—Bids will be opened August 2 by the Department of Highways and Public Works for the construction of 12 highway projects, covering a total of 118 miles, and for three bridge projects. Seven road projects call for a total of 65,754 miles of paving and five for 52,681 miles of grade and drainage construction.

NEW AND IMPROVED EQUIPMENT

Explosion-Proof Electric Motor

The Armor Electric Manufacturing Company, Erie, Pa., has recently developed a new line of Timken-equipped totally-enclosed electric motors, said to be explosion and abrasion proof, in ratings of from $\frac{1}{2}$ to 50 horsepower, 550, 440 and 220 volts, 2 and 3 phase, 25 and 60 cycles. The motors are of the squirrel cage induction type, and are especially designed for use under conditions where the atmosphere is likely to be impregnated with explosive fumes or abrasive dust, such as chemical plants, coal mines, foundries, or cement plants.

The stator is of the skeleton frame type, frames of heavy castings, with the feet cast integral. Rigidity of construction is secured by heavy flanges and cross ribs. The core is made up of high silica steel laminations, keyed to the stator ribs, and having partially closed



Timken-equipped

slots. The core steel has been selected as a means of improving both the power factor and general efficiency of the motors. Windings are of the concentric type, with one phase per slot. End coils are completely taped and thoroughly insulated, the whole stator being impregnated with a moisture and acid resisting compound varnish. This construction results in a very rigid winding described as capable of withstanding all sorts of abnormal conditions, both electrical and physical.

The end shields, of special construction, consist of solid, heavy castings, with heavy external ribs supporting an external ring. The arrangement provides a large radiating surface to dissipate the heat from the motor, the rate of dissipation being increased by a blast of air set up between the shield and the ring. The Timken rotor bearings are mounted between the caps which are bolted to the end shield proper, the caps having fine grooves on the inner surface which extend from 1 to 2 inches along the shaft,

and have from .001 to .005 clearance. Grease forced into the grooves under pressure produces a seal, dirt and gas proof. Motors are tested hydraulically at 75 pounds per square inch internal pressure.

Portable Engine

A new line of gasoline-kerosene engines in ratings from $1\frac{1}{2}$ to $7\frac{1}{2}$ horsepower, announced by Fairbanks, Morse & Co., Chicago, Ill., incorporate a number of interesting features, the most radical development being an all-enclosed, self-oiling feature. The $1\frac{1}{2}$ horsepower rating, adapted to such drives as portable pumps, air compressors, generator saws, grinders, polishers and similar uses, is less than 16 inches high, 22 inches long and 19 inches wide and weighs 150 pounds.

Two pulleys are provided, one operating at the engine speed of 1500 r.p.m. and the other at 750 r.p.m., with a mechanical regulator which permits slowing down to 1100 r.p.m. with proportionate reduction in horsepower. A feature of the new $1\frac{1}{2}$ horsepower unit is its simplicity in design, with 25 per cent fewer parts than customary. Unit construction throughout makes the cylinder,



All-Enclosed, Self-Oiling

water hopper, crankcase and bearing supports for both crankshaft and camshaft integral parts of the cylinder and base casting. The engine, with the exception of the magneto, can be entirely assembled on this casting.

Protection from dirt, dust, rain and snow is afforded through the fully enclosed feature; removal of 18 bolts completely dismantles the entire engine, and self-oiling is accomplished through a special lubricating system, without any grease cups.

Multi-Power Clamshell Bucket

A new and powerful digging bucket, adjustable to the character of material to be handled, has been designed by the Erie Steel Construction Company, Erie, Pa. It combines the multiple rope principle and that of the lower arm, the former producing power but slowing the action of the bucket, while the latter gives both power and speed. The bucket may be rigged with 2, 3, 4, 5 or 6 parts of lines and is described as requiring less headroom, making it speedier in its operations by having less line to over-haul; scoops are oversize, but there is little added bucket weight, making it possible to handle more material with little added power consumption. Counterweights in 100 pounds, attached to the



Erie Bucket for Digging

bucket by two bolts, may be put on or taken off by one man.

Other features are improved stops, relocated and longer, to add reinforcement to the power arm, while the main bearing is wider, designed to take the shock of digging more smoothly and eliminating excessive wear. All ropes end in wedge and socket and the teeth are of the self-burying chisel point type. Sheaves are of steel and are kept clean by special sheave cleaners, while large bearings keep the parts in alignment and heavy down-thrust lugs on the scoops relieve the rivets. Lubrication is by the alemite system.

The bucket has been on test since the first of the year, being tried in natural earth excavating of blue clay, shale rock, muck, gravel, quick sand, sod, roots, rock and other materials. It has also been tested in rehandling crushed stone, limestone, coal, coke and sulphur, beside undergoing trials under water.

CONSTRUCTION DEPARTMENT

and

NEW ENTERPRISES

Covering the initial announcements of new undertakings with additional information about enterprises previously mentioned. The date at the end of an item indicates preliminary facts were given in a previous issue.

When writing to a new firm or corporation the name of at least one of the incorporators should be placed on the envelope to expedite its handling by the local postoffice. Mail may be delayed unless complete address is given.

Building and Construction Proposed and Contracts Awarded; Manufacturing, Mining, Power, and Land Developments; Public Works; Transportation; Communication; Financial Enterprises; New Business Opportunities Reported in the Sixteen Southern States.

The Daily Bulletin of the Manufacturers Record gives each business day advance news published in this weekly review. It is invaluable to those requiring prompt information. Subscription price \$40.00 a year.

Airports, Airplane Plants, Etc.

Ala., Montgomery—City, L. G. Mason, Airport Mgr., let contract to Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa., at approx. \$20,000 for lighting municipal airport for night flying, including 2000-candle power rotating beacon, ceiling projector, boundary lights, obstruction lights and building flood lights. 3-28

Fla., Opa Locka—Miami City Comm. let contract to Florida Iron & Equipment Co., 519 N. W. Third Ave., Miami, for razing government dirigible hangar at Key West, and reconstructing it on 40-acre site here; 250x125 ft., 85 ft. high; government to be requested to establish Zeppelin training station.

Fla., St. Petersburg—City considering airport on waterfront.

Ga., Americus—Sumter County acquired Southern flying field; immediately make repairs to hangars and other buildings.

Ga., Waycross — Ware County Commrs. started constructing hangar at Ware County airport.

Mo., Kansas City—Bredouw-Hilliard Aeromotive Corp., H. L. Bredouw, Pres., Municipal Airport, let contract to Morley Bros. Construction Co., 1643 Bellevue Ave., for buildings; 120x140 ft., brick; general hangar space, 100x120 ft.; shop and other space, 40x60 ft. parts and supply department, 40x60 ft.

Mo., Kansas City—Tuxhorn Flying School, Inc., capital \$35,000, chartered; Blaine M. Tuxhorn, 810 Cleveland Ave.

Mo., St. Louis—Stuart Aero Products, Inc., Rutger and Thirteenth Sts., chartered; Ainsley E. Stuart, E. L. Wehmeyer. 7-18

Mo., Kansas City—Goebel Aviation Co., Inc., Conrad H. Mann, Pres., 1008 Commerce Bldg., increasing capital stock, \$200,000 to \$300,000.

Mo., Kansas City—Mid-Continent Airways formed with Harris M. Hanshue, Pres., also president of Fokker Aircraft Corp., Wheeling, W. Va.; Philip Philbin, V-Pres. and Gen. Mgr., Pueblo, Co.; operate daily service connecting Kansas City, Denver, Col., and El Paso, Tex.

Mo., St. Louis—National Air Transport, Inc., 506 S. Wabash Ave., Chicago, Ill.; Curtiss-Wright Corp., Paterson, N. J., and Garden City, Long Island, N. Y., and Transcontinental Air Transport, 915 Olive St., St. Louis, reported, forming merger to engage in railway express business.

N. C., Fletcher—Asheville Chamber of Commerce leased field to be developed as Asheville-Hendersonville airport, to be undertaken by civic organizations of Henderson County, Hendersonville, Asheville and Buncombe County in cooperation with government agencies; to include improvement of present runway, additional runways, drainage, etc.

Okla., Heaveney—City establishing airport; constructing 2 runways; planning large hangar.

Okla., Oklahoma City—Universal Airlines, 300 N. Broadway, St. Louis, Mo., Paul Goldsborough, V-Pres., in charge of operations, erect \$75,000 hangar at municipal airport if \$425,000 airport bond issue is voted; 135x141 ft., fully equipped with shops and workrooms, steel and conc. 7-18

Okla., Tulsa—Braniff Airlines, Inc., Paul R. Braniff, 2004 W. 16th St., Oklahoma City, subsidiary of Universal Airlines, begin within few days constructing \$100,000 hangar at municipal airport; 135x141 ft., provide for completely equipped shop and work rooms; first of series of hangars planned by Universal Airlines; excavation started; Fritz H. Nelson, Engr. in charge of construction.

Okla., Wewoka—City voted \$15,000 bonds for acquiring site and equipment for airport. 5-30

Tenn., Chattanooga — Office of Commr., Dept. of Public Utilities, Grounds and Buildings, City Hall, let contract to Brown Contracting Co., 706 Manning St., for grading and draining Lovell field; has low bid from Rogers & Leventhal, Inc., 822 E. 11th St., at \$42,228, for combined construction, including hangar, boiler room, terminal building and pump house; terminal building designed by William Crutchfield, First Natl. Bk. Bldg., and Maxwell James, Provident Bldg., Architects; Benjamin King & Associates, Airport Engrs., Hotel Patten, Chattanooga, and 1637 Massachusetts Ave., N. W., Washington, D. C. 7-11

Tex., Houston—Hurricane Motor Co., Inc., Alex Clark, Pres., 2103 Walker St., begin constructing \$300,000 plant to produce aircraft motors at rate of 100 monthly; within 30 days; motor constructed entirely of duraluminum, 150-h. p., weighing 225 lb.

Tex., San Antonio—Alamo Airplane Co., Milam Bldg., erect airplane plant; build 3 stock model ships, low-priced biplane, etc.; Boyd Hammond, Engr. 7-18

Va., Langley Field, Hampton—Natl. Advisory Comm. for Aeronautics let contract to Virginia Engineering Co., Newport News, at \$25,740, for boiler house; at \$25,390 for garage.

W. Va., Martinsburg—Chamber of Commerce named committee, H. C. Brooks, Chmn., R. K. Fuller and C. M. Seibert, consider sites for airport.

Bridges, Culverts and Viaducts

Proposed Construction

Ala., Mobile—John R. Peavy, Mobile County Highway Engr., making survey on Cedar Point road, for mainland terminus for proposed bridge to Dauphin Island; Arthur C. Davis, Pres., Mobile County Bd. of Revenue.

Ala., Mobile—War Dept., Washington, D. C., approved revised plans, Mobile County Bd. of Revenue and Road Commrs. for bridge across Chickasaw Creek, near Mobile; revised plans provide for eight 30-ft. 6-in. spans additional to take care of flood conditions.

Ark., Mountain Home—State Highway Dept., Dwight H. Blackwood, Chmn., Little Rock, plans receiving bids within 30 days for 1890-ft. conc. Cotter Bridge, with 5 arches, Baxter County.

D. C., Washington—Dist. Commrs. receive bids Aug. 7 to reconstruct floor system and hand rail on Anacostia River Bridge.

D. C., Washington—War Dept., Washington, approved plans Bureau of Public Roads, Dept. of Agriculture, for 2 bridges forming integral part of Mount Vernon Blvd.: Across

Little Hunting Creek, about 7 mi. from Alexandria; across Four Mile Run, 3 mi. below Washington.

Fla., Fort Lauderdale — Broward County Commrs. receive bids July 27 for rein. conc. slab bridge over Drainage Canal, 20x34-ft. plus wing walls, natural rock asphalt on native rock base, roadway; 6,200 lb. rein. steel; Charlton & Davis, Designing Engrs., Wheeler Bldg. 7-18

Fla., Jacksonville—Riverbank Development Co., H. H. Buckman, Pres., 130 Copeland St., submitted following plans, for toll bridge across St. Johns River, near Camp Foster, to U. S. Engineers; Double leaf bascule draw bridge with pile trestle approaches on each side, 100 ft. horizontal clearances between faces or fenders; 10 ft. vertical clearance above plane of mean low water; Col. L. V. Frazier, U. S. Dist. Engr. 7-18

Fla., Lakeland—Atlantic Coast Line Ry., J. E. Willoughby, Ch. Engr., Wilmington, N. C., receives bids about Aug. 1 for underpass: Precast conc. slab on conc. piers; cost about \$30,000.

Ky., Carrollton—S. G. Gould, Conslt. Engr. of firm of Howard, Needles & Tammen, Engrs., Kansas City, Mo., and H. B. Good, Engr. of firm of Nutting & Co., Cincinnati, Ohio, reported, making soundings for the piers for proposed Carrollton toll bridge across Ohio River connecting Kentucky and Indiana highways, to be constructed under Murphy Toll Bridge Act; previously reported, H. R. Creal, Bridge Engr., and J. S. Watkins, Highway Engr., both of State Highway Dept., Frankfort, completed survey for bridge. 9-27-1928

Ky., Louisville—Louisville & Nashville Ry. Co., W. H. Courtenay, Ch. Engr., Louisville, plans 54-ft. roadway instead of 42-ft. roadway on Third and K St. underpass.

La., Donaldsonville—Ascension Parish Police Jury, E. J. Waguespack, Pres., receives bids Aug. 15 to repair Bayou LaFourche Bridge.

Miss., Magnolia—Pike County Bd. of Supvrs., Chas. E. Brumfield, Clk., receives bids Aug. 5 for 7 bridges: Turner Bridge—Summit-Meadville road, Fourth Dist.; Sam T. Simmons Bridge—First Dist.; New cross road bridge—Third Dist.; new bridge on Bucksnort Place—Third Dist.; New eBarden Place Bridge—Third Dist.; Bud Wyatt Feldner Bridge—Third Dist.; New Albritton Bridge—Third Dist.

Miss., New Augusta—Perry County Bd. of Supvrs., C. C. Dearman, Clk., receives bids Aug. 5 to re-erect 216-ft. steel Wingate Bridge over Leaf River.

Mo., Clayton, St. Louis—See Roads, Streets, Paving.

Mo., Independence—Jackson County receives bids for 2 bridges. See Roads, Streets, Paving.

Oklahoma—State Highway Comm., L. H. Wentz, Chmn., Oklahoma City, plans 9 bridges: Rogers County—on Highway No. 66, near Chelsea; Caddo County—on Highway No. 66, west of Bridgeport; Comanche County—over Medicine Creek, Fort Hill, on Highway No. 7; Wagoner County—on Highway No. 51, between Wagoner and Coweta; Atoka County—over North Boggy Creek, near Stringtown, Highway No. 73; Comanche County—across Cache Creek, near Elgin,

Highway No. 7; Cotton County—Highway No. 5, near Emerson; John H. Rightmire, Acting State Highway Engr.

Oklahoma—State Highway Comm. receives bids soon for 2 bridges. See Roads, Streets, Paving.

South Carolina—See Roads, Streets, Paving.

Tennessee—Dept. of Highways and Public Works receives bids for 9 bridges. See Roads, Streets, Paving.

Tenn. Knoxville—War Dept., Washington, D. C., approved revised plans, city of Knoxville, Neil Bass, Mgr., for bridge across Tennessee River at Henley St.; Substitute one 225-ft., one 102-ft. and one 107-ft. spans north of north channel span pier, for one 195-ft. and three 86-ft. spans; substitute one 226-ft., one 225-ft. and one 107-ft. spans south of south channel span pier, for one 195-ft. and three 86-ft. spans; navigation clearance and location of bridge remain unchanged; J. E. Greiner & Co., Consol. Engrs., Lexington, Bldg., Baltimore, Md. 3-28

Tenn. Nashville—War Dept., Washington, D. C., approved plans State Highway Dept., R. H. Baker, Commr., Nashville, for bridge across Caney Fork River at Betty's Island, replace bridge destroyed by recent flood; 175-ft. steel channel spans, 70x100-ft. box clearance, 40-ft. conc. approach bents.

Tenn. Tullahoma—City, Bd. of Mayor and Aldermen plan 200-ft. wood bridge over Rock Creek at Grundy St.; conc. piers; replace bridge destroyed by recent floods.

Tex., Arlington—City, Will G. Hiett, Mayor, and Texas & Pacific Ry. Co., E. F. Mitchell, Ch. Engr., Dallas, plan underpass under T. & P. tracks; E. N. Noyes, Tarrant County Engr., preparing plans.

Tex., Beville—See Roads, Streets, Paving.

Tex., Vernon—Wilbarger County Commrs., E. L. McHugh, County Auditor, receive bids Aug. 10 for 100-ft. bridge over Beaver Creek, 12 mi. southwest of Harrold; J. B. Nabers, County Engr.

Tex., Waco—State Highway Comm., Austin, plans 100-ft. conc. and steel bridge across upper arm of Lake Waco, 24-ft. roadway; replace Mills Crossing Bridge; cost about \$200,000; Gibb Gilchrist, State Highway Engr.

Tex., Waxahachie—State Highway Dept., Austin, receives bids Aug. 1 for 2 bridges and underpass in Ellis County, on State Highway No. 6; Grove Creek Bridge; Texas Electric Underpass; Red Oak Creek Bridge; W. A. Spalding, Res. Engr.

Virginia—War Dept., Washington, approved plans, Dept. of Agriculture, through its Bureau of Public Roads, for bridge across Roaches Run near Cravolly Point, Va., being integral part of Mount Vernon Blvd.

Virginia—State Highway Comm., received low bids for 2 bridges. See Roads, Streets, Paving.

Va., East Radford—State Highway Dept., H. G. Shirley, Commr., Richmond, received low bid from Bowers & Bennett, Whiteville, N. C., \$86,000, for 7-span steel bridge over New River at Jackson's Ferry.

Va., Fredericksburg—State Highway Dept., H. G. Shirley, Commr., Richmond, plans expending about \$25,000 to widen to 24-ft. bridge over Hazel Run, between Fredericksburg and Richmond.

Va., Norfolk—City, Walter H. Taylor, 3rd, Dir. of Public Works, plans 100-ft. rein. conc. bridge over Eastern Branch of Elizabeth River, 30-ft. roadway, 6-ft. sidewalk; probably retain present swing span; conc. piles or wood piles enclosed in steel cylinders; Norman Z. Ball, Engr. of Bridges. 7-18

W. Va., Charleston—Kanawha County plans 3 bridges. See Roads, Streets, Paving.

Contracts Awarded

Ark., Pocahontas—H. A. Lesmeister, Jonesboro, Ark., has contract, \$45,000, for bridge and culvert work on Highway No. 67, Randolph County, from Pocahontas to Maynard.

Arkansas—State Highway Comm., let contract for 6 bridges. See Roads, Streets, Paving.

Fla., Miami Beach—City, C. W. Tomlinson, Clk., let contract to Robt. G. Lassiter Co., Inc., 8 W. Twenty-seventh Ave., Miami, \$65,887, for Forty-first St. Bridge over Indian Creek, on alternate "A" plans, timber pilings; Russell Panconist, Archt., Lincoln Road. 7-4

La., New Orleans—City, Bryson Vallas, City Engr., let contract to H. L. Villere, 926 Poydras St., \$8530, for 2 bridges over South Broad St. Drainage Canal at Clio and Erato St.; creosoted pile foundation, steel stringers, rein. conc. deck, 57-ft. long, 24-ft. road-

way, 5-ft. sidewalk; D. W. Godat, Constr. Engr., 7826 Zimple St.; T. S. Brooksh, Designing Engr., both New Orleans.

Miss., Aberdeen—Monroe County Bd. of Suprvs. let contract to W. C. Howton Construction Co. for bridge over Tombigbee River, Aberdeen.

Miss., Ellisville—See Roads, Streets, Paving.

North Carolina—State Highway Comm. let contracts for 4 bridges. See Roads, Streets, Paving.

Tex., Denton—City, B. W. McKenzie, Mayor, let contract to C. N. Davis for bridge over Pecan Creek north of American Legion Clubhouse.

W. Va., Charleston—Kanawha County Court, R. N. Moulton, County Clk., let contracts for 14 bridges and culverts and approaches totaling \$77,740; L. J. Janutalo, Fayetteville, for 8 culverts; S. J. Peraldo & Co., Charleston, for 2 culverts; E. R. Mills, Charleston, one 90-ft. pony truss superstructure; E. R. Mills, one 90-ft. pony truss, one 75-ft. pony truss, one 200-ft. through truss; C. C. Dodd, Spencer, for 2 culverts; Greybill & Dodd, Charleston, bridge fill, Patrick St. Bridge; Ferguson Bros. Co., \$13,126 for 1 mi. grading, draining road, from State road to Johnson Bridge. 7-4

Canning and Packing Plants

Tex., Natalia—Griggs Canneries, Inc., New Albany, Ind., plans erecting canning plant.

Tex., Teague—Chamber of Commerce, C. E. Bowen, Sec., will underwrite and sell stock locally to increase capacity of Short's canning factory. See Want Section—Machinery and Supplies.

Coal Mines and Coke Ovens

Ky., Ashland—Royal Millers Creek Coal Co., capital \$140,000, incorporated; F. E. Jones.

W. Va., Fairmont—Following acquired holdings of Brady-Warner Coal Co.; J. W. Revis, representing bondholders' protective committee; Frank A. Amos, representing New England Fuel and Transportation Co., 230 Stuart St., Boston, Mass., Charles A. Goodwin, representing Richard Inglis, 215 Cuyahoga Bldg., Cleveland, Ohio.

W. Va., Huntington—West Virginia Coal & Coke Co., Union Central Bldg., Cincinnati, Ohio, to be reorganized with John C. Cosgrove, Pres., also Chmn. of Bd. and Director, Cosgrove-Meehan Coal Corp., Swank Bldg., Johnstown, Pa.; new capitalization to be \$2,400,000; reported, expend \$1,000,000 in rehabilitating properties; president advises, "Will enlarge and improve entire property, add tipples, screening plants and equipment program when completed will give company best possible equipped operations."

Concrete and Cement Plants

D. C., Washington—Universal Concrete Products Co., capital \$50,000, incorporated; L. Francis S. Browne, 1501 Farragut Ave., N. W.

Mo., St. Louis—General Material Co. formed by merger of General Material Co., A. C. Butterworth, Pres., Buder Bldg.; Wet-Mix Concrete Co., 4999 Fyler St., and Commercial Concrete & Material Co., 5617 Natural Bridge Rd.; will operate plants on Fyler Ave., Natural Bridge Rd. and Park Ave.

Cotton Compresses and Gins

Ala., Decatur—R. N. Harris, T. M. Jones, and F. E. Taylor, acquired and will operate Polytinski & Shipper Ginning Co.

Ala., Loxley—Bertolla & Sons erect \$15,000 cotton gin; Comstock Construction Co., Contr.

Ala., Selma—Selma Compress Co., erect \$31,000 addition to plant; Rutledge & Pierson, Contr.

La., Abbeville—Electric Gin Co., Inc., capital \$15,000, chartered; Jonas Weill, Bertha Levy.

La., Lafayette—Estmere Martin Gin Co., Inc., capital \$20,000, chartered; Esteve A. Martin, George E. Martin.

Okla., Altus—Frederick Compress Co., G. R. Glynn, Supt., Frederick, constructing \$100,000 cotton compress; 1 story, 380 x 482 ft., conc. foundation, galv. iron roof; construction by day labor. 5-23

Okla., Isabella—Major County Cotton Corp., C. A. Fuller, Pres., erect gin; sheet iron, 90x24 ft.; will be operated by steam, 80 h. p., belt driven.

Tex., Bishop—Farmers Gin Co. erecting 100-bale capacity cotton storage house at No. 2 gin.

Tex., Eustace—Eustace Gin Co., incorporated; J. M. Roayll, T. P. Kelly.

Cottonseed-Oil Mills

Ala., Sheffield—Southern Cotton Oil Co., erecting addition to mill; cost \$40,000.

Drainage, Dredging and Irrigation

Fla., Miami—City receives bids until July 29 for dredging 7000 cu. yd. soft material and 5000 cu. yd. rock near Dinner Key, Biscayne Bay.

La., Breaux Bridge—Bd. of Commrs. of Coulee Nicholas Gravity Drainage Dist. No. 5, St. Martin Parish, let contract to J. W. Gibbs, Lafayette, La., at 8½ cents per cu. yd., for approx. 25 mi. drainage canals, requiring removal of approx. 300,000 cu. yd. earth; V. E. Smith, Engr., Lafayette. 7-4

Md., Baltimore—U. S. Engr. Office, Custom House, receives bids until Aug. 22 for dredging approx. 2,367,000 cu. yd. material from Baltimore harbor and channels.

Tex., Houston—See Gas and Oil Enterprises.

Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Ala., Gadsden—Alabama Power Co., Birmingham, install new transformer station at south end of Sixth St., station will connect with high transmission lines that run south of city through Wills Creek bottoms to steel mills of Gulf States Steel Co.

Ark., Conway—City ratified granting franchise to Conway Corp. for lease of electric light plant.

Ark., Gravette—Empire District Electric Co., 620 Joplin St., Joplin, Mo., reported, applied for franchise in connection with purchase of electric system and proposed lease of water system.

Fla., South Jacksonville, Jacksonville—City Council, P. C. Marion, Pres., receives bids Aug. 6 for erecting electric sub-station; 110x43 ft., tile floors; cost \$70,000; Harlan E. Wykoff, Archt., Ninth St., Jacksonville; Marcel Mazenau, City Engr., South Jacksonville. 11-18

Ga., West Point—Frederick H. McDonald, Pres., McDonald & Co., Engrs., Atlanta, reported, announced expenditure of \$10,000,000 for power project, whereby city will be protected from floods, entire project to be financed through sale of hydroelectric power; tentative approval given by Federal Power Comsn., Washington; associated in the project will be West Point Mfg. Co., who will purchase the power to be generated; J. Smith Lanier, Pres. of West Point Telephone Co.; Hardaway Contracting Co., Columbus, who will build the dams, and F. H. McDonald, Engr., Designers; actual construction to begin as soon as Federal Power Comsn. grants formal permit; plan will involve 2 dams on Chattahoochee River, 1 and 8 miles above city; flood control will be effected by height of dams; reserve retention capacity will be 10,000,000 cu. ft. of water; upper dam, will be 52 ft. high, lower dam, 18 ft. high; area flooded by reservoir will total 40,000 acres, extending 38 miles to Franklin; combined electric current will total 100,000 h.p.

Ky., Louisville—Louisville Gas & Electric Corp. and Columbia Gas & Electric Co., 61 Broadway, New York, have contracted to build high power transmission line between Louisville and Cincinnati, Ohio.

Mo., Joplin—City Council approved extension of white way on Joplin St. from Fifth to Seventh St.

N. C., Bennettsville—City Council granted electric franchise to Carolina Light & Power Co.

N. C., Charlotte—Stockholders of Duke Power Co. will vote July 31, at Newark, N. J., on increasing capital stock to \$150,000,000.

N. C., High Point—City engaged Wm. C. Olsen, Consol. Engr., 5 Exchange Place, Raleigh, to draft plans for power plant.

S. C., Beaufort—South Carolina Power Co., Charleston, reported, let contract to Dixie Construction Co., 600 N. 18th St., Birmingham, Ala., to rebuild all lines in city; install new machinery.

S. C., Summerville—Southern Power Co.,

Charlotte, N. C., and North American Gas & Electric Co., 57 William St., New York, negotiating for purchase of equipment and exclusive franchise of municipally owned Summerville Light & Power Co.

Tex., Denton—City plans installing white way through City Park on Oakland Ave. and Carrier St.

Va., Radford—City votes Aug. 20 on sale of city electric plant to Republic Service Corp., W. C. Devin, Operating Engr., 424 Land Title Bldg., Philadelphia, Pa.

Va., Shenandoah—Shenandoah River Power Co., controlled by Atlantic Public Service Co., 31 St. James Ave., Boston, Mass., contemplates power project on Shenandoah River, near Shenandoah; will construct 24-ft. dam crossing Page-Rickingham line.

W. Va., Piedmont—Potomac-Edison Co., Hagerstown, and Frederick, Md., acquired control of Piedmont Electric Light & Power Co., to be operated as part of Potomac Edison system; Piedmont Co. serves Piedmont, W. Va., Westernport, Md., and portions of Luke, Md.

Fertilizer Plants

N. C., Williamston—Standard Wholesale Phosphate Co., (main office Continental Bldg., Baltimore, Md., George A. Whiting, Pres.) C. G. Crockett, Plant Mgr., soon let contract for duplicating present unit, capacity 20,000 tons annually; erect new building, 120x300 ft., 45 ft. high, conc. foundation and side walls, comp. roof.

Flour, Feed and Meal Mills

Mo., Norborne—See Miscellaneous Construction.

Tex., Dallas—G. E. Conkey, 10307 Detroit Ave., Cleveland, Ohio, acquired Dal-Tex Grain Co. at 2300 Latimer St.; plans extensive improvements including doubling of storage capacity, and installation of new machinery.

Foundry and Machine Plants

Md., Towson—Black & Decker, A. G. Decker, in charge, Pennsylvania Ave., let contract to Wm. H. Sands, Pennsylvania Ave., for addition to foundry; 2-story, brick; cost over \$100,000; Geo. N. Mackenzie, Archt., 5 N. Guilford Ave., Baltimore.

Mo., Kansas City—Kansas City Steel Foundry Co., incorporated; John C. Smith, Elledge Rd. & Parrish Ave.

Mo., St. Louis—H. C. Atkins Mfg. Co., 2318 Randolph St. (Pipe Nipples), increased capital to \$1,000,000; plan acquiring several plants at various locations.

Mo., St. Louis—Elmore Centrifugal Products Corp., capital \$150,000, incorporated; Robert A. Bagnell, 119 N. 7th St.

Mo., St. Louis—Allegheny Tube & Steel Co., 1308 N. Main St., increasing capital, \$100,000 to \$200,000.

Tenn., Memphis—Machine Mfg. & Supply Corp., capital \$100,000, incorporated; E. R. McKenzie, 2432 Parkway Place.

Gas and Oil Enterprises

Ala., Jacksonville—Municipal Gas Co., S. P. McDonald, Pres., Sylacauga, has applied to city for gas franchise.

Ala., Mobile—Jett-Quill Construction Co., Staples-Powell Bldg., has contract for constructing tanks on property of Pure Oil Co., Columbus, O.

Fla., Miami Beach—Pure Oil Co., 234 Alton Rd., erect \$25,000 storage tank; construction by company's Engineering Dept.

La., Mansfield—Nabors Oil Corp., Inc., capital \$65,000, chartered; A. N. Lathan.

La., New Orleans—Columbia Refining Co., Inc., capital \$50,000, chartered; Charles Kohlmeier, 1520 Dufossat St.

La., Pleasant Hill—Bridges-Clerk Oil Co., Inc., capital \$25,000, chartered; J. M. Bridges, Milton Bridges.

Miss., Biloxi—Standard Oil Co. of Kentucky, Louisville, Ky., acquired Liberty Oil Co., which will be operated under management of W. L. Barbour.

Mo., St. Louis—Appel Brothers Oil Co., incorporated; Ralph M. Appel, 3007 N. Taylor St.

Mo., St. Louis—Hercules Motors Corp., Canton, Ohio, will supply 18 standard heavy-duty engines for auxiliary power equipment in stations gas line Mississippi River Fuel Corp., 506 N. Fourth St., St. Louis, is building from Monroe, La., to St. Louis; engines will be installed in pumping stations at Perryville, La.; Star City, Ark.; West Point, Ark.; Biggers, Ark., and Fredericktown, Mo. 4-11

Mo., St. Louis—Columbia Gas and Electric Co., 61 Broadway, New York, Utilities Power & Light Corp., 327 S. LaSalle St., Chicago, Standard Gas & Electric Co., 231 LaSalle St., Chicago, and American Gas & Electric Co., 30 Church St., New York, reported, have affiliated, but have not merged, for formation of extensive gas pool and probably electric pool, embracing most of territory north of Ohio River and extending from St. Louis to Pittsburgh; the links already planned or in existence in the super gas system are the Mississippi River Fuel Corp., St. Louis, controlled by Standard Oil Co. of N. J., which is building gas pipeline from Monroe, La., to St. Louis, St. Louis Gas and Coke Corp., controlled by Utilities Power & Light Corp., which has by-product coke oven and blast furnace plants at Coke, Ill., opposite St. Louis, the Louisville Gas & Electric Co., Louisville, Ky., which owns the Kentucky Coke Co., engaged in manufacture of gas at Louisville and connect with Columbia Gas & Electric gas lines at Lexington, Ky., and the Columbia Gas & Electric system, extending to Atlantic Seaboard.

Mo., Wellston—St. Elco Oil & Gas Co., capital \$250,000, incorporated; J. N. Denny, 4515 McPherson St., St. Louis.

N. C., Murphy—Community Oil Co., incorporated; C. M. Wofford, A. A. Fain.

Oklahoma—Standard Oil Co. of Indiana, through its subsidiary, Dixie Oil Co., Tulsa, acquired an undivided half interest in about 490,000 net acres of Amerada Petroleum Corp.; all acreage is in Oklahoma and Kansas.

Okl., Cleo Springs—Town voted to grant gas franchise to Oklahoma Gas & Electric Co., Oklahoma City; company will purchase distribution system.

Okl., Enid—Eason Oil Co. increased capital \$100,000 to \$1,000,000.

Texas—West Texas Gas Co., Amarillo, will construct extension to natural gas line system from point on trunk line near Kress to Silvetone, Quitaque and Turkey; in addition to serving these towns with fuel line will be available to large number of farmers along route; company obtains gas supply from Panhandle field north of Amarillo.

Texas—Central States Natural Gas Co., care of R. C. Holmes, Pres., Texas Co., 17 Battery Place, New York, reported, let contract to A. O. Smith Corporation, Milwaukee, Wis., for 191,000 tons of steel pipe, cost \$18,000,000, for 950-mile pipe line between Amarillo, Tex., and Chicago, with extension to Milwaukee under consideration. 7-18

Tex., Austin—Harper Oil Co. installing tanks, pipe line, loading rack, etc. See Want Section—Machinery and Supplies. 7-18

Tex., Clarksville—City granted gas franchise to Community Natural Gas Co., 1915 Wood St., Dallas, to supply Clarksville with gas service; plans putting down system of gas mains in September; will also supply gas to Bagwell, Detroit and Blossom, Ark. 7-4

Texas—Cranfill Reynolds Co., incorporated under laws of Delaware, with capital stock of 1,000,000 shares of no par value; T. E. Cranfill, Pres., 1013 Commerce St., Dallas, W. L. Moody, 111 V. P. and Treas.; company is consolidation of Cranfill & Reynolds, Inc., with pipe lines and producing properties in Brown County, Winkler County, Fisher County, etc.; included in consolidation are refining properties of Central Texas Refining Co., with refineries at Angus, Minerva, Brownwood, and Luling, capacity 10,000 bbls. daily; also acquired properties of Moody-Seagraves Co., Esperson Bldg., Houston, on the gulf coast; Central Texas Refining Co., C. A. Middleton, Pres., will be refining subsidiary.

Tex., El Paso—Lee Lynch Oil & Gas Co., capital \$125,000, incorporated; Dr. Frank W. Lynch, First Natl. Bk. Bldg.

Tex., Houston—City granted permission to Houston Natural Gas Co. to lay main along Fairview from Ridgewood to Mandell St.

Tex., Houston—Gulf Refining Co., Gulf Bldg., constructing deepwater oil terminal, consisting of warehouses, storage tanks and 300-foot dock on ship channel; dredging 250,000 yds. material to join dock frontage with channel; docks to accommodate 2 tankers; present plans call for about 5 warehouses and 15 tanks.

Tex., Humble—Sun Oil Co., 1608 Walnut St., Philadelphia, Pa., acquired 1200 acres of Bender property.

Tex., San Marcos—Southern Gas Co., Esperson Bldg., Houston, recently granted franchise to supply natural gas in San Marcos.

Va., Harrisonburg—Consumers Utility Co., Carl Riddleberger, Local Rep., (operating plants at Staunton and Winchester), granted gas franchise; construction of gas plant to begin in 30 days.

W. Va., Charleston—Addison Gas Co., capital \$16,000, incorporated; Fred Walls, 412 Reynolds St.

Ice and Cold-Storage Plants

Ga., Atlanta—J. B. Hill, Pres., Nashville, Chattanooga & St. Louis Ry., Nashville, Tenn., announced negotiations for erection of \$2,000,000 structure, present site of Union Station, by United States Cold Storage Co., Inc., M. D. Poronto, Pres., 2101 W. Pershing Rd., Chicago, Ill., practically complete. 5-30

Tex., Crystal City—Central Power & Light Co., Frost Natl. Bk. Bldg., San Antonio, let contract to Sumner Sollitt Co., Natl. Bk. of Commerce Bldg., San Antonio, for seasonal ice storage and vault; 110x60 ft., 55 ft. high, wing, 12x116 ft., 15 ft. high; John M. Marriott, Frost Bldg., Archt., San Antonio.

Iron and Steel Plants

Ala., Birmingham—Southern Steel Works Co., 908 Lucien Ave., (Structural Steel) installing beam shop and necessary equipment for handling large Carnegie and Bethlehem sections consisting of punch shop and special lay-out and cutting shop; E. L. Butler, Co.'s Ch. Engr., engineer; installation by owner.

La., Eunice—Eunice Iron Works, Inc., capital \$35,000, chartered; J. H. Johnston, Ison J. Guillory.

Tenn., Knoxville—Knoxville Iron Co., Frank J. Scott, Supt., install \$200,000 rolling mill, Lonsdale; machinery on ground; also installing machine to split worn rails into 3 parts, these strips to be rolled into steel rods, etc.; add modern type hot bed. 5-9

Land Development

Ala., Ashville—United States Cast Iron Pipe & Foundry Co., American Trust National Bank Bldg., Thomas Simons, Sales Mgr., Birmingham, advises company has not purchased 200 acres near Ashville for development of employees rest and health camp and does not contemplate such action. 7-11

Ark., Texarkana—Hill Crest Co., Texarkana National Bank Bldg., Andrew Rose, Pres., capital \$50,000, develop cemetery on Redwater Rd.

Ark., West Memphis—West Memphis Development Co., incorporated; R. G. Hobbs.

Fla., Callahan—Nassau Corp., incorporated; Consuelo Irvin, Esther Irvin.

Fla., Clermont—J. I. Lance has acquired two 10-acre tracts; will develop grape vineyards.

Fla., Madison—H. C. Lumpkin, Inc., chartered; H. C. Lumpkin, G. E. Lilly.

Fla., Miami—Co-Hoga Realty Co., Inc., chartered; J. M. Flowers, First Natl. Bk. Bldg.

Fla., Miami—Martinique Corp., incorporated; J. M. Lipnitz, Congress Bldg.

Fla., Miami—Lombard Corp., incorporated; H. F. Ward, 633 Navarre St.

Fla., Sebring—Withers & Harshman, Inc., chartered; A. E. Withers, E. W. Harshman.

Fla., St. Petersburg—Semit Realty Co., incorporated; Paul Poynter, 6 T. Francke.

Fla., Tampa—Oak Park Land Co., incorporated; J. A. Keeter, 1103 DeLean St.

Ga., Albany—C. H. Warren, 2528 Third Ave., N., St. Petersburg, Fla., purchased 15 acres of paper-shell pecan trees in United Pecan Groves subdivision on River Rd. south of Albany.

Ga., Albany—R. V. Burton, Memphis, Tenn., purchased 22 acres of paper-shell pecan trees in Mitchell County, known as DeWitt Pecan Groves, on old Thomasville-Albany Stage Road; also purchased 5 acres in Albany Georgia Pecan Groves subdivision on Dixie Highway in Dougherty County.

La., New Orleans—Clo Realty & Construction Co., incorporated; Carl L. Olschner, Atherton Drive.

Md., Baltimore—Engineers of Park Bd., George W. Cameron, Pres., now making survey for 18-hole golf course; probably start construction in fall.

Md., Baltimore—Ritz Realty Corp., 333 Equitable Bldg., incorporated; Leon Stein.

Mississippi—L. C. Walker, 975 Forrest St., Memphis, Tenn., acquired 1200 acre plantation in Yazoo County.

Miss., McComb—X. A. Kramer, W. L. Brock, both McComb, H. Whitworth, Summit, plan constructing 9-hole golf course, 3500 yd. long with Bermuda grass greens; J. P. Seals, Golf Archt., Birmingham, Ala.

N. C., High Point—City develop 75 acre park in southern section of city.

N. C., Rosemary—Nor-Can Realty Co., capital \$10,000, incorporated; W. J. Norwood, L. S. Cannon.

N. C., Spray—Over-Look Cemetery, Inc., chartered; H. W. Owns, C. W. Phillips.

S. C., Charleston—Wappola Corp., organized by W. H. Barnum, 250 Park Ave., and Owen Winston, 346 Madison Ave., both New York, acquired 2000 acre Harmon estate on Edisto River.

Tenn., Memphis—United States Home Development Co., 620 Dermon Bldg., incorporated; C. A. Allen.

Texas—Roos Brothers, Moore Bldg., San Antonio, purchased 9000 acre tract in Atacosa and Frio Counties; colonize and develop for farms.

Tex., Alamo—Southland Development Co. recently organized with C. H. Swallow, Pres., will develop 6000 acres of citrus orchards.

Tex., Corpus Christi—Chamber of Commerce. Noble Dougherty, interested in constructing golf course.

Tex., Houston—Rev. William States Jacobs, 918 Main St., acquired 320 acre tract on White Oak Bayou about 16 miles northwest of Houston.

Tex., San Antonio—Valley Co., incorporated; C. W. Payne, Travis Bldg.

Tex., Wichita Falls—E. F. Riley Realty Co., capital \$25,000, incorporated; E. F. Riley, 514 Indiana St.

Va., Norfolk—Quercus Holding Corp., incorporated; Moss W. Armistead, Camelot Apt., Portsmouth.

W. Va., Martinsburg—Gov. Harry F. Byrd, Richmond, Va., purchased Bunker Hill orchard, 150-acre plantation.

Lumber Enterprises

Ark., Crossett—Crossett Lumber Co. install hardwood flooring unit and hardwood kilns; Welch patented recirculating type hardwood progressive kiln, from General Dry Kiln Co., New Orleans, La., also furnishing heating system, consisting of 3 separate unit heating systems, each with separate trap and separate controls.

Ark., Siloam Springs—Fountain City Lumber Co. acquired Citizens Lumber Co.

Fla., Campbellton—Rambo Lumber Co., Mrs. I. N. Hendricks, Edison, Ga., and J. R. Sealy, Campbellton, rebuilding burned planing mill and dry kiln; install high speed planer.

Georgia—Peavy-Welsh Lumber Co., Shreveport, La., capital 1,000,000, paid in stock, organized with A. J. Peavy, Chmn. of Bd., 876 Jordan St., Shreveport, may erect sawmill in East Georgia on holdings of nearly 200,000,000 ft. of timber; negotiating for additional 200,000,000 ft.

La., Shreveport—See Georgia.

La., Shreveport—Allen Lumber & Mfg. Co., Inc., changing name to Amco Home Finance Co., Inc.

Mo., Joplin—E. F. Speck Lumber Co., capital \$20,000, incorporated; Edmund F. Speck, Joplin; Edmund Speck, Jr., Park Lane, Kansas City; building materials, hardware, etc.

North Carolina—Tennessee—Champion Fibre Co., J. A. Sisk, Canton, N. C., reported, acquired timber rights on 2800 acres of mountain land in Tennessee and North Carolina, including majority of Roan Mountain, 18 mi. from Elizabethton, Tenn.

N. C., Henderson—Watkins Lumber Co., incorporated; Augusta Watkins, T. P. Gholson; lumber and building material.

N. C., Watha—Thompson Bros., Inc., chartered; J. T. Thompson, M. B. Daniel; sawmill.

Okla., Poteau—Stanley Hicks, Bengal, erect plant to manufacture yellow pine lumber; employ 25.

Tex., Beaumont—Coale Lumber Co., Ray Coale, Pres., Park & Austin St., increasing capital stock, \$50,000 to \$150,000.

Va., Madison—Sugar Hollow Lumber Corp., capital \$50,000, incorporated; Allen Kauffman.

Metal-Working Plants

Fla., Jacksonville—Ha-Boy Metal Products Co., 1443 W. Forsyth St., William E. Boyett, Pres., plans trebling capacity of plant manufacturing all-metal ventilating shade for automobiles.

Mining

N. C., Fontana—Ducktown Chemical & Iron Co., Isabella, Tenn., reported, acquired copper mine in Fontana district.

N. C., Spruce Pine—Tennessee Mineral Products Co. started work at 2 mines on Cane Creek, Russ Buchanan, producing soap, spar, and Neal Wise, potash feldspar of best grade; install modern machinery.

N. C., Spruce Pine—Consolidated Mica Co., capital \$100,000, incorporated, W. E. Richardson, Erwin, Tenn.; John V. Cox and James Maberry, Spruce Pine.

N. C., Sylvia—North Carolina Flux Co., resume work at Cullowhee mine, yielding copper, iron, gold and silver.

N. C., Thomasville—Kennerlyte Quarries, Inc., capital \$100,000, chartered; J. W. Brawley, D. L. Kennerly, Greensboro.

Tex., Hockley—John Warren Mineral Co., Nannie Warren, recently incorporated, secured mineral rights on tract of 7352 acres, known as Warren ranch, on Hockley Rd. 6-13

Miscellaneous Construction

Arkansas—U. S. Engr. Office, McCall Bldg., Memphis, Tenn., has low bid for constructing 2,175,000 cu. yd. earthwork in Upper Yazoo Levee Dist., from Canal Construction Co., McCall Bldg., Memphis, Tenn., at 23.83 cents; 1,170,000 cu. yd. in White River Dist., from H. B. Blanks, Tallulah, La., at 26 cents. 6-27

Ark., Conway—City, H. D. Russell, Mayor, contemplates erecting incinerator.

D. C., Washington—U. S. Engr. Office let contract to Smoot Sand & Gravel Corp., 300 K St., at \$31,790, for rip rap stone for seawall foundation, Potomac River. 6-13

Fla., Fernandina—City, J. Fred Lohman, Mgr., City Hall, opens bids Aug. 21 for constructing boat hoist and dock; George D. Auchter Co., Engr., 600 E. Fourth St., Jacksonville. 5-23

Fla., Miami—Group composed of Jos. G. Graham, Robt. C. Graham and Ray A. Graham, of Graham-Paige Motor Company, Detroit, Mich., W. O. Briggs, Pres., Briggs Body Co., Detroit, J. Q. Goudie, assistant to Mr. Briggs, and others plan expending at least \$300,000 during 1929 in bulkhead work, filling, roadways and other improvements to land, and \$300,000 to \$400,000 in 1930; Julian Southerland, Atty., local repr. See Building News Columns—Buildings Proposed—Dwellings. 5-23

Fla., Opa Locka—Sternke & Kelman, Daytona Beach, soon let contract for fish hatchery; Leslie B. Taylor, Engr., Congress Bldg., Miami.

Fla., St. Petersburg—City negotiating to acquire Mullet Key group of islands for port and harbor.

Ga., Macon—City Council and County Commrs. plan establishing swimming pool; 200x100 ft.; construct pavillion and bath houses.

Louisiana—U. S. Engr. Office, foot of Prytania St., New Orleans, receives bids until Aug. 15 for following straight contract work, designated as following by name, location, kind of work, estimated net yardage: Atchafalaya River Levees—Foster levee, Avoyelles Parish, just above Woodside, new levee, 198,000; Melville South levee, St. Landry Parish, just below Melville, new levee and enlargement, 300,000; Red Cross South levee, Pointe Coupee Parish, just below Red Cross, new levee and enlargement, 321,000.

Louisiana—U. S. Engr. Office, foot of Prytania St., New Orleans, has following low bids for constructing approx. 13,880,000 cu. yd. earthwork on continuing contract for protection levees in Atchafalaya Basin, as follows by name, lot, estimated net yardage, bidder, price bid: Washington-Cortabau, Lot 1, 1,340,000, John Riess, New Orleans, at 13.9 cents; Lot 2, 1,730,000, J. P. Hebert, New Orleans, at 18 cents; Lot 1 and 2 combined, J. J. McCoy & States Construction Co., Chicago, Ill., at 16.41 cents; Hamburg-Baton Rouge, Lot 1, 1,450,000 Lot 2, 1,870,000, Lot 3, 1,600,000 and Lot 4, 1,980,000, J. J. McCoy & States Construction Co., at 18.18 cents; Maringouin-Ramah, Lot 1, 770,000, Lot 2, 880,000 combined, Damerson & Kenyon, Port Allen, at 20.34 cents. 6-27

La., Alexandria—City authorized by War Dept. to construct river terminals and wharves, foot of Lee St., equipped with modern loading and unloading facilities.

Miss., New Albany—Clerk of Bd. of Supervisors of Union County, T. E. Marshall, receives bids until Aug. 5 for constructing levee on public road which crosses Jule Guyton farm, in Fourth Dist.

Mo., Chillicothe—City, Forrest M. Gill, Pres., Park Bd., opens bids Aug. 15 for \$20,000 swimming pool, Simpson Park; 80x120 ft.; bath house, 34x34 ft.; Wesley Binz, Engr., 116½ N. Washington Ave., Lansing, Mich. See Want Section—Building Material and Equipment.

Mo., Kansas City—U. S. Engr. Office, Postal Telegraph Bldg., has low bid from A. W. Farney, Ry. Exch. Bldg., at \$373,719.10, for constructing about 20,350 lin. ft. standard revetment in Missouri River, Bean Lake Bend. 6-27

Mo., Norborne—Farmers Feed & Grain Co., capital \$15,000, incorporated; B. A. Case, George R. Auld; grain elevators, mills, etc.

Okla., Ponca City—L. H. Wentz let contract to George M. Robertson Construction Co. at about \$70,000 for swimming pool; white ceramic tile, trimmed in red and black, submarine lighting, 150x50 ft.

Tex., Austin—Col. Ike Pryor, Central Tr. Bldg., San Antonio, and Richard M. Kleberg, 517 N. Broadway, Corpus Christi, probably be members of committee to manage raising fund of \$50,000 for constructing monument to wild mustangs, at capitol grounds.

Tex., Brady—American Legion and Chamber of Commerce sponsoring movement to raise funds to construct \$15,000 swimming pool, Richards Park; accommodate approx. 700.

Tex., Houston—William A. Stone, 1913 Shepherd Dr., constructing 1000-ft. bathing and fishing pier.

Tex., Houston—See Gas and Oil Enterprises.

Tex., Sabine Pass—U. S. Engr. Office, Galveston, receives bids until Aug. 27 for repairing Sabine Pass east jetty by placing about 65,000 tons cover stone and picking up and replacing stone, over length of 21,700 ft.

Tex., San Antonio—City, Mayor C. M. Chambers, let contract to W. C. Thraikill, Real Estate Bldg., for completing 3 barless bear pits and monkey island at Brackenridge Park Zoo. 2-21

Va., Norfolk—Treasury Dept., Office of Supervising Archt., Washington, D. C., let contract to A. H. Bell, Dickson Bldg., at \$11,000 for concrete breakwater.

W. Va., Berkeley Springs—West Virginia Game, Fish & Forestry Comm., Col. Vernon E. Johnson, Chmn., Berkeley Springs, acquired site in Timber Ridge Dist.; soon start constructing modern fish hatchery.

Miscellaneous Enterprises

Ala., Sheffield—Maurice and Lester Ettman acquired Froham Baking Co.; name to be changed to A. B. C. Bread & Baking Co.; H. K. Sipes, Pres.; Lester Ettman, V.-Pres.

Ark., Springdale—Springdale Dairy Products Co., capital \$20,000, incorporated; H. Y. King, Pres., Bentonville; S. R. Felker, Jr., Sec., Springdale.

Ark., Wheatley—Arkansas Rice Growers, H. K. Mith, Pres. and Gen. Mgr., soon rebuild \$125,000 burned mill.

Fla., Jacksonville—W. S. Quinby Co., Sidney Lanier, V.-Pres. and Gen. Mgr. expending \$63,000 installing complete unit of new machinery to double capacity of coffee and tea plant, occupying second and third floors of Union Terminals warehouse.

Fla., Orlando—Fifth City Co. incorporated; G. B. Carter, State Bk. Bldg.; building and construction.

Fla., Tampa—See Chattanooga, Tenn.

Fla., Williston—Levy Ne-Hi Bottling Co., incorporated; Bertman Ibbetson, F. F. Schreiber.

Ga., Brunswick—Brunswick Coca-Cola Bottling Co., M. A. Copeland, Prop., started work erecting bottling plant, Mansfield and Reynolds St.

Ga., Eatonton—Foremost Dairy Products, Inc., Jacksonville, Fla., negotiating to acquire Eatonton Co-Operative Creamery.

Ga., Valdosta—China-American Tobacco Co., 25 Broadway, New York, and Rocky Mount, N. C., reported, enlarge stemming and redrying plant; erect addition to warehouse, providing storage for 2,000,000 lbs.; install additional equipment.

Ky., Louisville—Sherman & Sons, Inc., J. N. Sherman, Pres., 315 W. Market St., clothing manufacturers, acquired 3-story plant, Brook St. bet. Hill and Gaubert St.; plan expending \$50,000 for equipment.

Ky., Paducah—Fred W. Woodward, Dubuque, Iowa, acquired Paducah Newspapers, Inc., Edwin J. Paxton, Pres., Evening Sun and News Democrat; Elliott C. Mitchell and W. F. Bradshaw Paducah, and M. R. Kane, Dubuque, acquired other stock in Paducah papers; Fred W. Woodward, Pres.; W. F. Bradshaw, V.-Pres.; Elliott C. Mitchell, Gen. Mgr.; Joseph L. Roth, Sec. and Treas. of new company.

La., Lafayette—Chamber of Commerce, P. J. Voorhies, Pres., negotiating with Banfield Bros. Packing Co., Tulsa, Okla., for establishing rendering plant.

La., Mansfield—De Sota Baking Co., Inc., chartered; A. S. Durham, Mrs. G. H. Baker.

La., New Iberia — Company formed with \$50,000 capital to establish meat packing plant; Carlos Bodin, Pres.; Fred Mohot, V. Pres.

La., Pitkin—Pitkin Cooperative Sweet Potato Curing Co., Inc., chartered; J. J. Beeson, W. J. Hall.

La., Thibodaux—Louisiana Moss Mfg. Co., Inc., chartered; Isidore Schuster, Napoleonville; Arthur A. Kattan, 3700 Dauphine St., New Orleans.

Md., Federalburg — Vaughan Hastings, Seaford, Del., establish weekly newspaper; to be temporarily printed elsewhere until equipment is acquired and ready for local plant.

Md., Adamstown—Thomas Fisheries, Inc., chartered; G. Leicester Thomas; propagate common and fancy goldfish or game fish.

Ma., Baltimore—Carozza Flaccomio Contracting Co., 112 N. Gay St., incorporated; Antonio T. Carozza, Vincent Flaccomio.

Md., Baltimore—Drug Mfrs.—Banking interests acquired Sharp & Dohme, Inc., Varick & Grand St., New York, and Pratt and Howard St., Baltimore, as result of agreement entered into with group of stockholders consisting of A. R. L. Dohme, Ernest Stauffen, and Homer Smith; Alexander Brown & Sons, Baltimore; Drexel & Co., Philadelphia, Pa.; Charles D. Barney & Co., and Brown Bros. & Co., New York; directors of new purchasing company to include: A. R. L. Dohme, Ernest Stauffen, Jr., B. Howell Griswold, Jr., Thomas Hildt, of Alexander Brown & Sons; Thomas Newhall, of Drexel & Co.; Charles D. Dickey, of Brown Bros. & Co.; Edwin A. Fish, of Charles D. Barney & Co.; Robert H. Cory, of Lamont, Corliss & Co.; A. Homer Smith to be president; all stockholders will receive offers for their shares equal to that received by the largest stockholder; company will have new issue of common stock without par value, no public offering of common to be made; new company to carry same name as old.

Md., Hagerstown—American Cleaning Co., 278 S. Prospect St., incorporated; J. Clarence Lane.

Miss., Greenwood—Greenwood Bottling Co. formed by consolidation of Greenwood Nu-Grape Co. and Nehi Bottling Co.; Walter Scott, Pres.; J. H. Freeman, V. Pres.

Miss., Water Valley—Yalobusha Publishing Co., R. H. Coleman, Pres., Jackson, publishing Progress-Itemizer, weekly paper, acquired North Mississippi Herald, L. C. Barber; papers to be merged and print semi-weekly paper.

Mo., Aurora—Parker Publishing Co., capital \$10,000, incorporated; Pansy Lee Reynolds, James A. Parker.

Mo., Cape Girardeau—Sugar Creek Creamery Co., H. C. Horneman, Pres., Danville, Ill., acquired Golden Grain Butter Co.; plans erecting \$100,000 plant to be completed and put in operation during summer of 1930 with annual capacity of 3,500,000 lb. of butter.

Mo., Kansas City—Rau Construction Co., Gus Rau, Pres. (Boiler and Refinery Contractors), 1815 Harrison St., erect light manufacturing plant, Harrison St. south of 24th St.

Mo., Kansas City — Waxide Paper Co., Maurice Berkely, Pres., Tracey & Berkowitz Ave., increasing capital, \$400,000 to \$500,000.

Mo., Kansas City — Vanish, Inc., capital \$25,000, chartered; Morton I. Newell, 3627 Agnes St.; toilet articles, etc.

Mo., Kirkwood—City, R. L. Jacobsmeier, Mayor, voted \$50,000 for fire station and new apparatus. 6-27

Mo., St. Louis — Mallinckrodt Chemical Works, 3600 N. Second St., let contract to Woerman Construction Co., Syndicate Trust Bldg., for \$75,000 boiler house; 1-story, basement, rein. conc., brick.

Mo., St. Louis—Chic Model Garment Co., 704 Washington Ave., incorporated with Sam Kiesel, Pres.

Mo., St. Louis—Knickerbocker Clothing Co., Albert F. Epstein, Pres., 1310 Washington Ave., announced beginning Jan. 1 will occupy entire building of 7 floors and basement at present location, representing expansion of 22,000 sq. ft.; expend approx. \$10,000 for improvements and additional equipment.

Mo., St. Louis—Plumbers' Supplies—H. C. Atkins Mfg. Co., C. R. Kammerer, Pres., 2318 Randolph St., increasing capital, \$200,000 to \$1,100,000.

Mo., St. Louis—Meler Co., capital \$25,000, incorporated; C. F. Meler, Title Guaranty Bldg.; advertising, printing, publishing, etc.

Mo., St. Louis—Engineering, Constructing and Contracting—Kest-Loneragan Co., capital \$25,000, incorporated; Joseph Kest, Jr., 6900 Arsenal St.

Mo., Webb City — Crocker Packing Co., Charles Chinn, Pres., increasing capital \$200,000 to \$300,000.

N. C., Durham—American Tobacco Co., 75 Montgomery St., Jersey City, N. J., and 111 Fifth Ave., New York, plans doubling and remodeling office space; install sprinkler and ventilator systems, communicating devices, etc. 5-2

N. C., Marshall—Madison Farmers, Inc., capital \$100,000, chartered; Guy V. Roberts, John F. Bryan; condensed, preserved and evaporated milk.

N. C., West Jefferson — Kraft-Phenix Cheese Corp., 100 Rush St., Chicago, Ill., acquired site and will begin within 60 days erecting cheese plant; first unit to manufacture cheese and powdered whey, and another to be completed later to handle sweet cream and powdered skim milk; establish substations at nearby points; machinery costing \$10,000 on ground; C. M. Gore, Dist. Mgr.

N. C., Winston-Salem — R. J. Reynolds Tobacco Co., has permit for \$35,000 addition to tinfol plant, Eighth St., between Patterson Ave. and Norfolk & Western Ry.; 1-story, brick.

Okla., Clinton—City, McInnis Rogers, Mayor, voted \$15,000 for fire fighting equipment. 6-27

Okla., Oklahoma City — Prest-O-Lite Co., Inc., 30 E. 42nd St., New York, let contract to C. E. Huffman for \$125,000 plant; 2 buildings, 1 story, 50x70 and 131x59 ft., brick, conc.; private plans. 7-18

Oklahoma City—McKesson & Robbins, Inc., Bridgeport, Conn., negotiating to acquire Alexander Drug Co., E. S. Malone, Pres.

Okla., Tulsa—Banfield Bros. Packing Co., R. C. Banfield, V. Pres., 915 E. Apache St., and Gen. Mgr., receives bids about Sept. 1 for \$250,000 addition to packing plant; 3-story, brick, rein. conc.; to be added to top of building; Bonnel Toktz Co., Archt., St. Louis, Mo. 2-14

Tenn., Chattanooga — Chattanooga Coca-Cola Bottling Co., 214 Fort St., soon begin erecting \$100,000 bottling plant; 2-story, rein. conc., brick, stone trim, built-up roof, steel sash and doors, sprinkler system, terrazzo and conc. floors; private plans.

Tenn., Chattanooga — Chemicals—Kalbfleisch Corp., 200 Fifth Ave., New York, reported, merged with American Cynamid Co., 535 Fifth Ave., New York, constructing phosphate plant, Tampa, Fla.; C. D. McCollister, Local Mgr., Kalbfleisch Corp.

Tenn., Chattanooga—Chattanooga News let contract to Mark K. Wilson, Power Bldg., for \$30,000 addition to newspaper buildings; 2 units, 50x60 ft., 4-story and 20x60 ft., 2-story, rein. conc.; W. H. Sears, Archt., James Bldg. 3-28

Tenn., Gallatin—J. L. Kraft, Pres., Kraft-Phenix Cheese Corp., 400 Rush St., Chicago, Ill., will acquire cheese plant here.

Tenn., Memphis—Drainage and Excavation Machinery—Harnischfeger Corp., Milwaukee, Wis., G. L. Lillard, Branch Mgr., erect building, S. Front St. bet. Vance and Pontotoc Ave.

Tenn., Memphis—American-African Cocoa Products Co., Inc., capital \$100,000, being formed by R. P. Davidson, 3640 Bowen St.

Tenn., Memphis—City soon call for bids for fire fighting equipment costing approx. \$35,000, including 1000-gal. pumper and 2 service trucks.

Tex., Big Spring—B. M. Logan & Son, Colorado, establish chicken hatchery, E. Third St.; install 52,000-egg incubator.

Tex., Dallas — Hasie Engineering Co., incorporated; C. L. Hasie, 5626 Victor St.

Tex., Dallas—Road Machinery—Wirt Davis and H. P. Inge, 3708 Republic Bk Bldg., erect building, S. Lamar, between terminal and Cadiz St., 120 ft. front; to be occupied by J. D. Adams Mfg. Co., Indianapolis, Ind.

Tex., Dallas—F. E. Hoffman of Dallas, and associates, George F. Howard, Jr., and J. S. Curtis, Central Tr. Bldg., San Antonio, announced purchase of Texas Furniture Co. chain of 7 furniture stores in Fort Worth, San Antonio, Houston, El Paso and Dallas; headquarters to be Dallas.

Tex., Galveston—High Grade Packing Co., Jasper Tramonte, Pres. and Gen. Mgr., 2627 D St., increasing capital stock, \$100,000 to \$250,000; contemplate improving and renovating plant.

Tex., Ladonia—John R. Thacker, Carter, Okla., acquired Ladonia News, J. W. Gay.

Tex., Port Arthur—New Homestead Bakery, A. Roy, Prop., 532 Austin Ave., receiving bids for \$20,000 bakery; 48x100 ft., brick,

1-story, Spanish type; construction to begin Aug. 1 and be completed Oct. 1; Livesay & Wiedeman, Archt., San Jacinta Life Bldg., Beaumont.

Tex., Waco—E. I. DuPont de Nemours Co., Wilmington, Del., leased site, 9 mi. from city on McGregor Rd., for erecting 3 magazines for explosives, having capacity of approx. 2 carloads each.

Tex., Wichita Falls—Armour Creameries, subsidiary of Armour & Co., Union Stock Yards, Chicago, Ill., acquired Wichita Poultry & Egg Co.; includes produce house, 504 Tenth St., and branches at Nocona, Graham, Electra, Clarendon, Hedley, Silverton, Memphis, Quanah and Quitaque, all Tex., and Grandfield, Okla.; Victor Pringle, Springfield, Mo., to be manager of properties here.

Va., Danville—Danville Tobacco Redrying Corp., capital \$50,000, incorporated; E. D. Noell.

Va., Hampton Roads—Newport News Ferry, operated by Chesapeake Ferry Co., 206 Front St., Norfolk, merged with Old Point-Willoughby Co., operated by Hampton Roads Transportation Co., 12 Nebraska St., Norfolk; Chesapeake Ferry Co. to operate entire system and plans building 40-automobile capacity steamer, to operate between Willoughby and Old Point.

Va., Marion—Construction—Tilley & Cox, Inc., capital \$25,000, chartered; V. M. Cox.

Va., Norfolk—Building and Construction—Cahoon-Hudgins, Inc., Arcade Bldg., capital \$15,000, chartered; W. E. Hudgins.

Va., Newport News—Johnston Coca-Cola Bottling Co., capital \$100,000, chartered; R. M. Brown, 33rd & Huntington Ave.

Va., Petersburg — General Garment Mfg. Co., George Brasfield, Pres., Union St., soon let contract for \$50,000 plant, Canal St.; 3-story, modern; to be completed within 6 months.

W. Va., Belle—Du Pont Engineering Co., Wilmington, Del., let contract to Virginia Bridge & Iron Co., Roanoke, Va., for 225 tons fabricated struc. steel, for extension to generator plant. 7-11

W. Va., Charleston—Phoenix Corp., capital \$25,000, incorporated; Joshua Botkin, 1103 Bridge Ave., prepare plans and architectural designs and to build hotels, apartments, etc.

W. Va., Grafton—Hazel-Atlas Glass Co., G. Wesley Evans, Supt., expend approx. \$75,000 for installing fuel saving devices; construction started; H. S. Brady, Dist. Mgr.

W. Va., Wellsburg—Eureka Remedy Co. being formed by James A. Fuson, P. O. Box 168, and associates, to manufacture drugs. See Want Section—Miscellaneous.

Motor Bus Lines and Terminals

Ala., Montgomery — David E. Pillson and Phillip M. Irey, Milwaukee, Wis., applied to Alabama Service Comm. for authority to operate motor carrier of freight, including perishables, on every major highway in Alabama north of Montgomery.

Md., Baltimore—United Railways & Electric Co. applied to Public Service Comm. for permission to operate de luxe parlor coach bus line from Roland Park to business section; plans using small, speedy coaches, 19-passenger.

Okla., Oklahoma City—W. O. Green, 2112 W 12th St., authorized by Corporation Comm. to operate truck line connecting Oklahoma City, Shawnee and Seminole.

Tenn., Elizabethton—Beeler & Co., Johnson City, has contract for Bemberg-Glanzstoff bus and rail depot.

Tex., Port Arthur—Tom W. Hightower applied to Railroad Comm. for authority to operate bus line, Port Arthur to Galveston via High Island; Arthur L. Burge for permission to operate, High Island to Beaumont via Stowell, Chambers County, and for Port Arthur-Galveston line.

Motor Cars, Garages, Filling Stations

Ark., Jonesboro—Ark-Mo Motor Co., incorporated; A. H. Abernathy, R. H. Patton.

Ark., Little Rock—Central Motors, Inc., capital \$50,000, chartered; C. E. Shoemaker, 2811 Ozark St.

Ark., Little Rock—Bush Nash Co., 309 Center St., soon call for bids for automobile structure, Third St. and Broadway; 2-story, brick.

Ark., Osceola—Driver Chevrolet Co., C. B. Driver, Mgr., let contract in few days for \$30,000 automobile building, Hwy. 61; 90x100 ft., with showroom 20x85 ft., shaded brick, conc. floors; include filling station and repair shop; plans completion about Sept. 15; Uzzell Branson, Archt., Blytheville.

D. C. Washington—L. E. Jacquier, rear 1224 13th St., receiving bids, no date set for closing for remodeling garage; 2-story, brick; A. S. J. Atkinson, Archt., 5801 Macomb St.

D. C. Washington—Texas Co., Munsey Bldg., erect \$10,000 filling station, Sixth and New York Ave., N. W.; brick and conc.

Fla., Fort Pierce—Gulf Refining Co., E. E. Weilborn, Local Agt., immediately erect \$35,000 service station, Orange Ave. and Fourth St.; red brick.

Fla., Perry—Taylor County Motor Co. incorporated; E. H. Ward, C. H. Hastings.

Fla., West Palm Beach—Standard Oil Co., erecting service station, Belvedere and Parker Ave.; owner builds by day labor.

Fla., West Palm Beach—Henry J. Weiler and associates, operators of Southland Service Station, erect \$20,000 gas station, Olive Ave. and Hibiscus St.

Fla., West Palm Beach—Sadler's Tire Shop, 406 First St., let contract to R. Gilkinson, for tire shop, Olive and Gardenia St.

La., Crowley—Hollier's Motor, Inc., capital \$20,000, chartered; Larry H. Hollier.

Ga., Atlanta—Earnest G. Beaudry Motor Co., 169 Marietta St., N. W., let contract to King Bailey, Healey Bldg., for remodeling building, 169-73 Marietta St., N. W.; 3-story, brick walls, tar and gravel roof; conc., terrace and wood floors; plate glass fronts; millwork, etc.; Jas T. Mitchell, Archt., 140 Peachtree St., N. E.

Ga., Savannah—Chatam Tire Co., let contract to Dabney & Crutchfield, Citizens Trust Bldg., at \$20,000, for service station; brick, conc. area-ways and footings, comp. roof; Walter Marshall, Archt., Savannah Bank & Trust Bldg.

La., New Orleans—Following have sub-contracts for Packard Motor Co. building, Charles Ave. and St. Mary St.; brick work, T. A. Pittman, 2305 Almonaster Ave.; cast stone, Architectural Cast Stone Co., 8122 Colapissa St.; orna. and misc. iron work, Jas. R. Sutton, 4724 Banks St.; excavation, Frank P. Schadwell, 1708 N. Broad St.; pile driving, W. Horace Williams Co., Inc., Southern Bldg.; J. V. & R. T. Burkes Inc., Gen. Contr., New Orleans Bk. Bldg.; Albert Kahn, Inc., Archt., Marquette Bldg., Detroit, Mich. 6-13

Md., Baltimore—Ford Bros., Inc., 2034 Frederick Ave., chartered; Austin C. Ford, Howard T. Ford; deal in motor vehicles.

Md., Baltimore—Harry E. Gilbert, 2 E. Lexington St., let contract to North-Eastern Construction Co., 6 W. Madison St., for \$150,000 automobile showroom and sales building, Charles and 24th St.; to be occupied by Cadillac Cadillac Co.; Howard Baldwin, Archt., 339 St. Paul St.; Kubitz & Koenig, Engr., Emerson Tower Bldg. 6-6

Md., Baltimore—Auto Parts Co., Harry Nechamkin, Pres., 104 N. Front St., acquired Levering House; remodel first floor for automobile sales room.

Md., Baltimore—Standard Oil Co. of N. J. alter building, Charles and 20th St.

Md., Baltimore—Martin J. Barry, 1700 N. Charles St., let contract to Thomas Hicks & Sons, 106 W. Madison St., for automotive service building, Lanvale and Morton St.; 1-story rein. conc.; cost approx. \$60,000; H. F. Doelman, Engr., 516 N. Charles St.; Frederick Thomas, Archt., 726 E. 33rd St.

Miss., Drew—H. T. Miller, Doddsville, let contract to O. B. Douglas Construction Co., Drew, for service station, Main and Greene Sts.

Mo., St. Louis—Mack-International Co., main office, 25 Broadway, New York City, erect \$450,000 garage, service station, sales and assembly plant, block surrounded by Jefferson, Chouteau and La Salle Ave.; 1-story; establish offices on small second story above garage portion.

N. C., Charlotte—McDonall Service Co., 614 S. Tryon St., having plans completed for filling station; M. R. Marsh, Archt., Builders Bldg. 7-18

N. C., Greensboro—C. H. Heritage, Inc., capital \$25,000, chartered; C. I. Carlson, Sunset Dr. Irving Park; deal in motor cars, trucks, etc.

N. C., Hendersonville—Ellison Motor Co., Inc., capital \$25,000, chartered; B. M. Ellison, 842 Kanuga Rd.

N. C., Wilson—Planters' Chevrolet Co., capital \$125,000, incorporated; H. L. Longnecker, John Jackson.

Okla., Oklahoma City—Greenlease-Moore Chevrolet Co., 901 N. Broadway, let contract to Wm. Lambert Construction Co., 1812 W. 16th St., at \$80,500, for garage; heating and plumbing, Kimsey & Swafford Heating Co., 217 W. Washington St., at \$12,384; N. B. Fleming, Archt., Commercial Bldg., Tulsa.

Okla., Oklahoma City—Johnson-Norton, retail Buick agency, Edgar C. Johnson, 427 W. 22nd St., and Sam Norton erect building, Broadway and 13th St., to cost over \$125,000; 125x160 ft., 3-story and basement.

S. C., Anderson—Sinclair Oil Co., Marius C. Bagby, Local Mgr., acquired site, Calhoun and N. Main St., for filling station; 4-pump, 2 enclosed grease and wash racks.

S. C., Columbia—Nelson-Gray Motor Co. incorporated; Edward P. Hodges, Palmetto Bldg.

S. C., Columbia—Knox Motor Co., capital \$30,000, incorporated; T. P. Knox, Oakwood Court.

Tenn., Knoxville—Post & Co. (Automobile Repairs), 334 S. Central St., let contract to H. A. Gervin, 215 N. Broadway, for \$30,000 building, 320-408 S. Central St.; 123x83 ft.; L. M. Wow, Brownlow Bldg., Archt.

Tex., Brenham—Brentex Building Co., Mayor A. A. Hacker, Mgr., recently organized, let contract to Alex Griffin for business building; conc., brick, tile; to be occupied by Schawe Motor Co.; excavations being made; to be complete within 90 days.

Tex., Dalhart—Williams Motor Co., capital \$30,000, incorporated; C. E. Williams, E. H. Griffith.

Tex., Houston—Humble Motor Co., John Glass, Mgr., Humble, plans rebuilding burned building.

Tex., Lubbock—Beacon Master Service, Inc., capital \$15,000, chartered; H. S. Gellin, V. M. Greer.

Tex., Uvalde—Miller & Cobb soon receive bids for remodeling and addition to garage building; 1-story, tile, frame, stucco, galv. iron roof; cost \$10,000; Will N. Noonan Co., Archt., Bldrs. Exch. Bldg., San Antonio.

Va., Ballston—George H. Eckert has permit for filling station, Globe Rd. and Lacey St.

Va., Charlottesville—Charlottesville Oil Corp., A. T. Dulaney, Pres., Ruckersville, erect storage plant for gasoline, kerosene, motor and fuel oils within 30 days; use horizontal tanks with steel supports, and underground storage tanks, 550 and 1000 gal. capacities, pumps, etc.; first retail location secured, Main and 10th St.; raze or remodel; will secure other locations in city, Albemarle and adjoining counties. See Want Section-Miscellaneous. 7-18

Va., Norfolk—Commercial Garage & Service Co., J. A. Lesner, Mutual Bldg. Assn. Bldg., expending \$12,000 converting building, Water St., into garage; accommodate about 100 cars.

Railways

Ala., Mobile—Gulf, Mobile & Northern R. Co., I. B. Tigrett, Pres., 71 Continental St., authorized by Interstate Commerce Comm. to acquire direct control of Meridian & Memphis Ry., Jackson & Eastern Ry. and Birmingham & Northwestern Ry. by acquisition of properties, rights and franchises.

Ark., Waldron—Arkansas-Western Ry., A. N. Reese, Ch. Engr., Kansas City, Mo., let contract to C. E. Forester, for clearing right-of-way for 23 mi. extension; to Williams & McWilliamson for grading; A. P. Ellis has contract for several thousand treated pine fence posts. 5-9

Fla., Fort Lauderdale—Broward County Port Authority, C. C. Freeman, Chmn., let contract to Bryan & Holloway Construction Co., Inc., Comean Building, West Palm Beach, at \$63,976, for constructing Port Everglades Terminal R. R., extending from municipal slips at Port Everglades to point $\frac{3}{4}$ mi. south and thence westward to cross Florida East Coast and Seaboard Air Line rights-of-way. $4\frac{1}{2}$ mi. long, standard gauge; to be completed in 120 days.

Fla., Mayo—Mayo & Cook's Hammock R. Co. authorized by Interstate Comm. to construct line, Mayo to Cook's Hammock, to cost \$200,000. 7-4

Ky., Lexington—Southern Ry. Co., G. L. Sittin, Ch. Engr., Charlotte, N. C., let contract to Bates & Rogers Construction Co., 37 W. Van Buren St., Chicago, Ill., for constructing second main line track between Rogers Gap and Lexington, 19.6 mi.

Mo., Joplin—Joplin-Pittsburg R. R. Co., applied to Public Service Comm. for authority to acquire and operate tracks and right-of-way of former Joplin & Pittsburg Ry. Co., John F. Layng, Gen. Mgr., Pittsburg, Kan., running, Pittsburg, Kan., to Joplin.

Mo., St. Louis—St. Louis Southwestern Ry. Co., 7 N. 7th St., Daniel Upthegrove, Pres., plans purchasing 10 heavy type locomotives, costing about \$110,000; W. J. Miller, Supt. of Motive Power, Pine Bluff, Ark.

Tenn., Chattanooga—Tennessee, Alabama & Georgia Ry., Geo. H. Burgess, Pres., Chattanooga and 52 Wall St., New York, advises doing practically all work in connection with improvement with own forces and some force account construction work through local contractor; do not expect to award contracts of great magnitude. 5-9

Texas—Kansas City, Mexico & Orient Ry. Co. to be merged with Atchison, Topeka & Santa Fe Ry. System, W. B. Storey, Pres., Chicago, Ill., effective Aug. 1, instead of being operated as separate property as at present; line, Wichita, Kan. to Altus, Okla. has been leased to parent system of Atchison, Topeka & Santa Fe, and line, Altus to Alpine, Tex., leased to Panhandle & Santa Fe Ry. Co.; E. S. Shauler appointed assistant to general manager of Western lines with headquarters at Wichita, Kan.; general offices at San Angelo to be abolished and divisional offices maintained.

Tex., Brundage—San Antonio, Uvalde & Gulf R. R. Co., C. S. Kirkpatrick, Ch. Engr., Houston, let contract to Wm. A. Smith, 5600 Canal St., Houston, for branch line from Brundage southward 4.7 mi.; requires little grading and no bridges, all drainage carried under track by small pipe culverts; construction started. 7-4

Tex., Houston—Texas-Mexican Ry. Co., M. T. Cogley, Pres., Laredo, reported, reached tentative agreement for acquiring San Diego & Gulf Ry. Co., J. W. Cain, Pres., Neils Esperson Bldg. 4-4

Tex., San Angelo—Business men of city signed contract with J. L. Lancaster, Pres., Texas & Pacific Ry. Co., Dallas, also president of Abilene & Southern Ry. Co., for extension of Abilene & Southern from its present southern terminus at Ballinger to San Angelo, 38 mi., costing \$1,500,000 to \$2,000,000; soon apply to Interstate Commerce Comm.; soon begin rebuilding Abilene & Southern, Ballinger to Abilene, with heavy steel and rock ballast.

Tex., Sonora—McDougal & Weddle have contract for grading San Angelo to Sonora railroad line of Kansas City, Mexico & Orient Ry. Co. of Tex., H. E. Beard, Ch. Engr., Wichita, Kan., subsidiary of Atchison, Topeka & Santa Fe Ry. Co., G. W. Harris, Ch. Engr., Ry. Exch., Chicago, Ill.; Lone Star Construction Co., Gen. Contr., Millam Bldg., San Antonio. 7-4

Railway Shops and Terminals

Alabama—Gulf Coast Lines, C. S. Kirkpatrick, Ch. Engr., Houston, Tex., let contract to Orange Car & Steel Co., Orange, Tex., for oil house at De Quincey; 24x80 ft.

Tex., Fort Worth—Texas & Pacific Ry. Co., E. F. Mitchell, Ch. Engr., Dallas, let contract to Gifford-Hill Co., Inc., North Texas Bldg., Dallas, for lowering grades in extreme east end of yard, on right-of-way between Sycamore Creek and New York Ave., in connection with \$7,000,000 improvement program.

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Ala., Birmingham—City Comm. plans expending about \$55,000 to pave 4 streets, including First Ave., with bitulithic and brick; Sparta, Fourth and Ave. L in Ensley; A. J. Hawkins, City Engr.

Ala., Mobile—City, Mayor Bates, considering widening 2 blocks St. Emanuel St., Government to Dauphin St.

Alabama—State Highway Comm., receives bids for road. See Bridges, Culverts, Viaducts.

Ala., Mobile—Mobile County Bd. of Revenue and Road Comms., A. D. Davis, Chmn., receives bids Aug. 12 for 2 roads: Van Antwerp or Wolf Ridge road; 10,300 B. M. untreated lumber, 9,000 cu. yd. grading; Pump House road, 6,000 cu. yd. grading, 12,000 B. M. untreated lumber; E. C. Doody, Clk.

Ark., Little Rock—City, Subway Improvement Dist. No. 465, W. Terry Field, Engr., received low bid from Grady Garms, Rector Bldg., \$81,200, to complete West Seventh St. paving.

Ark., Little Rock—City, Pat Robinson, Mayor, plans expending \$225,000, for street improvement. See Financial News Columns.

Fla., McIntosh—City plans opening Ave. H from W. H. Gist corner to lake and paving from Dixie Highway to lake.

Fla., Miami—City, Welton A. Snow, Mgr., receives bids Aug. 5 to pave N. W. Fourteenth Ave., Seventeenth to Twentieth St.; N. W. Fifty-seventh-Fifty Eight Courts, and First, Third and Fifth St.; C. S. Nichols, City Engr.

Fla., Miami—City, Welton A. Snow, Mgr., receives bids about July 29 to pave S. W. Fifth Ave., Flagler to Fourth St.

Fla., Trenton—Town, Mayor and Council, W. A. Gay, Clk., receives bids Aug. 14 for 20,000 sq. yd. bit. surface treatment paving, with appurtenances; H. S. Jaudon Engineering Co., Leesburg, and Eustis, Fla., Elberton, Ga.

Ga., Atlanta—City, I. N. Ragsdale, Mayor, received low bid from O. A. Pittman Construction Co., 436 Whitehall St., S. W., \$9706, for 5696 yd. paving on Floyd and Vannoy St.

Ky., Louisville—City, Bd. of Public Works, plans \$100,000 paving 1 mi. Lexington road, from Top Hill road to Cherry Lane; Charles V. Mehler, Asst. City Engr.

La., Alexandria—City, V. V. Lamkin, Mayor, considering rein. conc. paving, Jackson St., from end of brick paving to Hynson Bayou.

La., Bossier City—City receives bids Aug. 20 to pave, with rein. conc., Arcadia St., Levee Ave. to Coleman St.; Charles D. Evans, Const. Engr., 4508 Glen Iris Blvd., Shreveport.

La., Benton—Bossier Parish Police Jury, receives bids July 29 to gravel 10 roads; Ward One—McDade-High Island-McClanahan; Sligo-Koran; Bluffs Highway; Ward Two—Benton-Scottsville-Stokes; Linton; Brownlee-Linton; Wards Three and Four—Plain Dealing-Carterville Highway, 12,000 cu. yd. borrow; Ward Six—Houghton-Haughton-Clarks bayou highway; Sligo-Koran Highway.

La., Bossier City—City receives bids Aug. 6 to pave 7 blocks Delhi St., Traffic St. to Hamilton road; Charles D. Evans, Const. Engr., Levy Bldg., Shreveport. 7-11

La., Mansfield—De Soto Parish Police Jury, G. Williams Wharton, Sec., receives bids Aug. 7 for Gloster-Kingston road of Sub Road Dist. No. 1; \$20,000 available.

La., Monroe—Ouachita Parish Police Jury plans expending \$260,000 to pave Island road, Sub-Road Dist. No. 3, Ward 1. See Financial News Columns.

La., St. Joseph—Tensas Parish Police Jury receives bids Aug. 14 to grade, bridge and gravel surface 3 roads; 11.3 mi. Newellton-Newlight Highway; 7.25 mi. Newells Ridge; 5.3 mi. Somerset-West Highway; J. M. Fourmy, Engr., Hammond, La.

Maryland—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, Md., receives bids July 30 for 6 roads; Baltimore County—1 mi. conc. shoulders, Belair road, from Putty Hill toward Perry Hall, Cont. 8-118; Harford County—1 mi. conc. St. Mary's Church road, end of conc. at Five Forks, toward Pennsylvania State line, Cont. H-74; Kent County—5 mi. conc., from conc. road near Rock Hall toward Eastern Neck Island, Cont. K-42; Montgomery County—2 mi. conc. Columbia Bld., from near Triangle on Georgia Ave. to Grace Church road, Cont. M-128; Somerset County—1 mi. conc., Westover-Fairmount road, end of Cont. 8-30; Manokin, toward Fairmount, Cont. 8-34; 1 mi. conc., from Harold P. O. toward Rehoboth, Cont. 8-36; L. H. Stuart, Sec. of Comm.

Md., Baltimore—City, Bd. of Estimates authorized expending \$32,300 to pave 9 streets; Breitwert, Laurel, Levindale, Spaulding Ave.; Carlton, Lombard, Patapsco, St. Joseph St.; Wagon Alley; Nathan L. Smith, Highways Engr.

Md., Brunswick—Town, C. A. Orrison, Mayor, plans expending \$20,000 for permanent street improvements. See Financial News Columns.

Md., Hagerstown—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, received low bid from Cumberland Contracting Co., for 9 mi. conc. shoulders, National Pike, Washington County, from end of Cont. W-1-C to Hancock; L. H. Stuart, Sec. 7-11

Md., Rockville—Montgomery County Commrs. plan paving Easley St., Silver Spring Park; Grove St.; cement sidewalks on Silver Spring Ave.; estimated cost \$26,990.

Md., Rockville—State Roads Comm., G. Clinton Uhl, Chmn., Baltimore, plans improving 1 mi. sections of following highways; Dickerson, toward Martinsburg; Dickerson, toward Sugar Loaf Mountain; Poolsville, toward Edwards Ferry; Laytonville toward Goshen; L. H. Stuart, Sec.

Md., Salisbury—Wicomico County Commrs. considering hard surfacing Royal Oak-Peters Creek-Wetipquin road and slag and bit. surfacing on shell road from Salisbury-Nanticoke State road at head of Creek to Wetipquin Ferry.

Miss., Columbus—Mayor and City Council receive bids Aug. 6 for 7600 lin. ft. curb and gutter, 1,900 sq. yd. sidewalk paving, 3,000 cu. yd. excavation, manholes, inlets, etc.

Miss., Fayette—Jefferson County Bd. of Supvrs., O. S. Gillis, Clk., receives bids Aug. 6 for gravel road, Dist. 1, from Dist. No. 2 line to Pleasant Hill, 58,000 cu. yd. excavation.

Miss., Hazlehurst—City Council plans 1 1/3 mi. vitrified brick or conc. paving on 5 streets.

Miss., Hernando—De Soto County Bd. of Supvrs., W. L. Browning, Clk., receives bids Aug. 5 to gravel 3 roads, 1/2 mi. road, Middle road to Oak Grove church; 1/4 mi. road, from A. D. Williams house to connect with Bluff road; 1 mi., from John McCullough house, Commerce road, extending east; 3 mi. Middle road, from Five Mile cross road to Alf Jones corner.

Miss., Indianola—City, R. L. Weissinger, Clk., receives bids Aug. 12 for paving or surfacing, storm sewers, water mains, etc., on Augusta St., Catchings to Marie Ave.; pave, curb and gutter Heathman Ave., Perry to Gresham St.; gravel or surface water mains, storm sewers, etc., Baker St., Sunflower to Faison Ave.

Miss., Jackson—City Comm., A. F. Hawkins, Commr. of Streets, receives bids Aug. 6 to grade, surface, gravel, lay sidewalks, curbs, gutters, sanitary and storm sewers, etc. on Central Ave., Buena Vista Place, Pinehurst, Greymont, Lyncrest St., etc.

Miss., Starkville—Oktibbeha County Bd. of Supvrs., J. E. Buckner, Clk., receives bids Aug. 6 for 2 1/2 mi. road in Beat Three, from Mabon to Bishop School house; 1/2 mi. Douglas road from Bishop school south; bids Aug. 5 for 1 mi. Black Jack road.

Miss., Vicksburg—Warren County Highway Comm. receives bids Aug. 5 for 3.4 mi. gravel road, from intersection of Jeff Davis Academy with Fisher's Ferry, Third Dist.; 17,500 cu. yd. excavation, 3000 cu. yd. gravel surface.

Miss., Vicksburg—Warren County Highway Comm., receives bids Aug. 5 for 3.9 mi. dirt Bear Creek road, from Morley Fork, 25,600 cu. yd. excavation.

Miss., Water Valley—Yalobusha County, Road Commrs., Road Dist. No. 4, receives bids Aug. 5 for 2 roads; 4.8 mi. gravel, Water Valley-Oakland public road; 5.2 mi. gravel, Coffeeville-Oakland public road.

Mo., Benton—State Highway Comm., Jefferson City, plans 15 mi. cross county route, from Route 61, near Morley, westward to Highway No. 25, through Oran, Chaffee and Blomeyer.

Mo., Clayton, St. Louis—St. Louis County receives bids July 31 to improve North and South road from northern University city limits to St. Charles road; also for 45-ft. steel span bridge on rein. conc. abutments over Cold Water Creek, Robbins Mill road.

Mo., Independence—Jackson County Court, Leo H. Koehler, County Engr., receives bids July 29 to pave 4 roads, and 2 bridges; 4.9 mi. Oak Grove road, Mecklin School to Levasy road; 4.8 mi. Oak Grove road from Sni Mills to U. S. No. 50; 3.7 mi. Graup Valley—Buckner road; 3 1/4 mi. Independence-Lee Summit road; 2 bridges on Blue Springs road, between U. S. 40 and U. S. 24.

Mo., Kansas City—City, Matthew S. Murray, Dir. of Public Works, considering resurfacing Eighteenth St., Main to Paseo; H. F. McElroy, City Mgr.

Mo., Sikeston—City plans expending \$20,000 for 30-ft. wide conc. paving, 6 blocks Kingshighway, from North St. to city limits.

Mo., Springfield—City Council plans paving with conc., Boonville Ave., Dale to High St.; S. R. Fisher, City Engr., preparing plans.

N. C. Burlington—City receives bids Aug. 12 for conc. sidewalk and pavement on certain streets.

Oklahoma—State Highway Comm., L. H. Wentz, Chmn., Oklahoma City, received low bids for 6 roads; Kingfisher County—6.383 mi. conc., U. S. Highway No. 81, Dover, north, Park & Co., Oklahoma City, \$94,871; Pottawatomie County—3.99 mi. conc., State Highway No. 3, west of Shawnee, G. P. Carr Construction Co., Shawnee, \$55,341; 4.69 mi. conc., State Highway No. 18, Tecumseh, south, G. P. Carr Construction Co., \$69,128; Grant County—5.63 mi. conc., U. S. Highway No. 81, Renfrew, north, Hyde Construction Co., Enid, \$91,386; Alfalfa County—6 mi. conc., U. S. Highway No. 64, east of Cherokee,

Standard Paving Co., 2119 E. Eleventh St., Tulsa, \$101,742; Kay County—5 mi. conc., State Highway No. 11, Tonkawa, west, Brooke and Dahlgren, \$75,254. 7-11

Oklahoma—State Highway Comm., L. H. Wentz, Chmn., Oklahoma City, receives bids after July 29 to grade and drain 5 roads totaling 29 mi. and 2 bridges; Coal County—14 mi., Highway No. 75, north of Coalgate; Cotton County—8 mi. State Highway No. 5 east of Walters, also bridge over Cache River; Okmulgee County—6 mi., Highway No. 9, Dewar to McIntosh County line; Grady County—grade separation at Rock Island R. R. tracks, Highway No. 81, at Minco; Wagoner and Mayes Counties—1 mi. in Verdigris bottom, Highway No. 11; Custer County—bridge east of Clinton, Highway No. 66; John H. Rightmire, Acting State Highway Engr.

Oklahoma—State Highway Comm., L. H. Wentz, Chmn., Oklahoma City, receives bids July 29 for 8 roads; Muskogee County—2.5 mi. conc., U. S. Highway No. 64, Taft-west; Lincoln County—14.54 mi. conc. or asphalt paving, U. S. Highway No. 66, Chandler-east, Osage County—5.03 mi. conc., State Highway No. 11, south east of Barnsdall; Muskogee County—1.5 mi. conc. or brick, U. S. Highway No. 64, west of Muskogee; Washington County—4 mi. conc., State Highway No. 25, south east of Bartlesville; Beckham County—5 mi. conc., U. S. Highway No. 60, S. W. Sayre; Seminole County—9 mi. conc. or brick, State Highway No. 3, N. W. Seminole; Pawnee County—6.81 mi. conc., U. S. Highway No. 64, west of Pawnee; John H. Rightmire, Acting State Highway Engr.

Okla., Tulsa—City, Dan Patton, Mayor, plans 5 new paving districts, including alley in Woodlawn Addition; Twelfth St.; alley in Burnett Addition; Gray, Delaware and Zunis Ave.; K. R. Teis, City Engr.

South Carolina—State Highway Comm., Columbia, receives bids July 30 for road and bridge; Greenwood County—1.59 mi. Portland cement conc., Route No. 10, from end of Project 293-A toward McCormick, 20,023 cu. yd. excavation, 10,023 sq. yd. 7 1/2-6-7 1/2-in. 18-ft. wide, and 6,783 sq. yd. 8-6 1/2-8-in. 18-ft. conc. paving, 6,554 lb. rein. steel; Fairfield County—addition to conc. culvert, Route 215, 10,000 lb. rein. steel, 220 tons rip rap.

S. C., Columbia—Richland County considering expending \$275,000 to pave 6 roads; 1 mi. Trenholm road; 1 mi. Leesboro road from end of present paving; Old Winnsboro road; Old Asylum road; extend Assembly St. and Rosewood Drive. See Financial News Columns.

S. C., Gaffney—State Highway Comm., Ben M. Sawyer, Ch. Highway Commr., Columbia, plans surfacing 4 mi. Cherokee County section of Spartanburg-Rutherford Highway from Chesnee to North Carolina line; J. L. Jenkins, Maintenance Supvr.

Tennessee—Dept. of Highways and Public Works, R. H. Baker, Commr., Nashville, receives bids Aug. 9 for 14 roads, 9 bridges and approaches; Shelby County—1.520 mi. paving, State Highway No. 1, Scott Ave. to city corporation line at Memphis; Haywood County—3.926 mi. State Highway No. 1, from point near Brownsville, Station 367 plus 31 to Station 605 plus 35.3; Shelby County—9.191 mi. State Highway No. 4, Mississippi State line and Memphis; Hardin County—4.194 mi. State Highway No. 15, McNairy County line and Tennessee River; Wayne County—6.976 mi. grading, draining State Highway No. 13, Waynesboro to Sol Hollow; McNairy and Hardin Counties—12.282 mi. grading, draining Highway No. 57, Route 5 to Shilo Park; Cumberland County—9.517 mi. grading, draining, Highway No. 42, Station 431 plus 48 to Crossville; Henderson County—12.901 mi. Highway No. 20, Lexington to Madison County line; Davidson County—3.152 mi. Highway No. 11, city limits of Nashville to Project No. 384-A; Hamilton County—4.26 mi. Highway No. 8, Deeds Ave., Chattanooga, to Bachman Tunnel; 3.342 mi. Highway No. 2, McNairy County line to Southern Underpass.

Tipton County—8.196 mi. grading, draining, Highway No. 49, Mason to Covington; Rhea-Cumberland Counties—8.413 mi. grading, draining, Highway No. 68, Grand View to Grassy Cove; Hardin County—9.609 mi. grading, draining, Highway No. 69, Savannah to Station 506 plus 50, south of Savannah; 3 bridges over 20-ft. spans; Bridges; Dickson County—creosoted timber overhead and approaches over N. C. & St. L. Ry., near Dickson, on .258 mi. Highway No. 1; Marshall County—2 conc. bridges and approaches over Corn and Richland Creeks, .643 mi. Highway No. 51 between Lewisburg and Pulaski; McMinn County—approaches to conc. overpass, 326 mi. Highway No. 2 under Southern Railway north of Athens; Williamson County—conc. overhead approaches, .681 mi. Highway No. 6, over L. & N. R. R., near Perry; Warren County—one conc. and one

steel and conc. bridge and approaches. 479 mi. Highway No. 55, McMinnville and Coffee County line; T. E. McEwen, State Highway Engr.

Tenn., Chattanooga — City, E. D. Bass, Mayor, considering widening to 70 ft., 14 blocks, Ninth St., Chestnut St. to Park Ave.; cost about \$1,148,223.

Tenn., Memphis—City, D. C. Miller, Clk., plans street improvement. See Financial News Columns.

Tex., Dallas—Dallas County, Chas. E. Fross, County Auditor, receives bids Aug. 19 to grade, drain and pave, Bachman's Drive; Rollins & Clinger, Dtl. Engrs., Dallas.

Texas—State Highway Comm., receives bids July 31 and Aug. 1 for roads: Bexar County—155 mi. conc. drainage structures, Highway No. 2, from San Antonio to Wilson County line; on Highway No. 16, from San Antonio to Medina County line; H. P. Stockton, Jr., Div. Engr.; San Patricio County—10.445 mi. grading, draining, Highway No. 128, from Sta 78 plus 33.3, through Odum to Sinton; F. M. Percival, Res. Engr.; Tarrant County—7.794 mi. grading, draining and large bridges on Highway No. 2, Johnson County line north to M. K. & T. Ry.; M. C. Welborn, Res. Engr.; Gibb Gilchrist, State Highway Engr.

Texas—State Highway Comm., Austin, receives bids July 31 and Aug. 1 for 2 roads: Austin County—8.80 mi. grading, small and large drainage structures, Highway No. 73-A, from East Mill Creek to point east of Industry; Herbert Schroeter, Res. Engr.; Trinity County—23.44 mi. 5 1/4-in. compacted gravel base, 2 1/4-in. crusher run limestone or limestone gravel second course, double bit. surface treatment, Highway No. 94, from point east of Groveton to Neches River; G. R. Abney, Res. Engr., Lufkin; Gibb Gilchrist, State Highway Engr.

Tex., Austin — City, Adam R. Johnson, Mgr., plans widening, to 100 ft., Barton Springs road to city swimming pool; asphalt surface, between conc. on either side of road.

Tex., Beeville—Bee County Commrs. Court plans expending \$260,000 to purchase right-of-way to widen to 80 ft. Highway No. 16 through county, build hard surfaced highway from Beeville to Live Oak County line; repair bridges. See Financial News Columns.

Tex., Bonham—Fannin County considering extending Highway No. 78, from Bonham to Red River; sand or gravel, with bridges.

Tex., Cuero—DeWitt County, Stanley Kulawik, County Judge, plans 1.1 mi. 16-ft. gravel surface, Community road, from Prairie View road to Kokernot road; W. H. Koether, Res. Engr.

Tex., Denton — City, B. W. McKenzie, Mayor, plans paving Ash St. at American Legion Clubhouse; asphalt surface on Carrier St. drive through park; East McKinney St., Locust to Bell Ave.

Tex., Fort Worth—State Highway Comm., Austin, will let contract July 29 for 2 roads in Tarrant County: Widen, 24 to 36 ft., 5.8 mi. Fort Worth-Dallas Highway from Stop Haines to Death Crossing near Arlington; improve Burleson Cardinal, State Highway No. 2; M. C. Welborn, Res. Engr.

Tex., Fort Worth—City, O. E. Carr, Mgr., received low bids to pave 7 streets and surface bridge: Hemphill St., General Construction Co., Capps Bldg., \$125,242, rock asphalt, Thurber Construction Co., Ft. Worth Natl. Bk. Bldg., \$138,000 with brick; Berry St., Hughes Engineering Co., \$84,618, asphalt, General Construction Co., Capps Bldg., \$94,635 brick; surface New Lake Worth Bridge, Hughes Engineering Co., \$5385; West Arlington St., Hughes Engineering Co., asphalt; Galveston Ave., West Texas Construction Co., 504 Cotton Exchange Bldg.; Louisiana Ave., Broadway to Hattie St., West Texas Construction Co., \$14,921; and at \$32,953 for Louisiana Ave., Terrell to Allen; D. K. Lewis, City Engr. 7-11

Tex., Galveston — Galveston County, I. Predecki, County Auditor, receives bids Aug. 12 for bit. surface treatment on 6 roads and streets: Dickson-Alto Loma; Dickson-San Leon; League City-Kemah; League City-Friendswood; 2 streets or roads in League City.

Okl., Sapulpa—State Highway Comm., L. H. Wentz, Chmn., Oklahoma City, will gravel Highway No. 75, from Sapulpa to Mounds, Creek County; John H. Rightmire, Acting State Highway Engr.

Tex., Kaufman — Kaufman County, J. E. Yates, County Auditor, receives bids Aug. 8 to furnish material and work on resurfacing and asphalt topping roads in Precinct No. 1; Terrell Bartlett, Inc., Engrs., Smith-Young Tower, San Antonio, Tex.

Tex., Memphis—Hall County plans expending \$350,000 to improve 30 to 35 mi. on Highways No. 86 and 18: In Precinct No. 3, Estelline Section—west through Estelline, \$150,000; Precinct No. 4—24 mi. near Turkey, \$200,000. See Financial News Columns.

Tex., Pasadena — City, G. W. Conrad, Mayor, plans street repairs. See Financial News Columns.

Tex., Palestine — State Highway Comm., Austin, considering improving section between Palestine, Anderson County, and Corsicana, Navarro County, of East-West Texas Highway and building bridge over Trinity River at Wildcat Ferry; Navarro County, H. C. Nash, County Judge, has \$388,000 available; Anderson County, E. H. Shelton, County Judge, has \$320,000 available.

Tex., Perryton—Ochiltree County plans expending \$700,000 for roads. See Financial News Columns.

Tex., Port Arthur—City Commrs., J. W. O'Neal, Mayor, plans expending about \$1,000,000 for street paving; W. O. Bower, City Engr. See Financial News Columns. 7-4

Tex., San Augustine—San Augustine County Commrs. Court plans expending \$150,000 to grade and gravel main lateral roads, and probably other highways. See Financial News Columns.

Tex., San Antonio—City Comm., Fred Fries, City Clk., plans widening, 24 to 36 ft., and paving East Euclid Ave., Main to Jones Ave.; cost \$19,869; I. Ewig, City Engr.

Tex., Stinnett—Hutchinson County, H. M. Hood, County Judge, plans expending \$150,000 for 18.2 mi. State Highway No. 117, between Stinnett and Hansford County line. See Financial News Columns.

Virginia — State Highway Comm., H. G. Shirley, Commr., Richmond, received low bids for 5 roads and 2 bridges: King William County—10.737 mi. grading, draining, Route 30, from point east of Port Richmond-Colosse Church line, Perkins & Barnes, Blackstone, \$32,623; Arlington County—1.331 mi. sheet asphalt, conc. base, Route 21, Cherrydale-Halls Hill road, Corson & Gruman Co., 33rd and K Sts., N. W., Washington, D. C., \$46,883; Pittsylvania County—3.011 mi. rock asphalt, Route 14, from point south of Banister River, Rhoades & Walters, Culpeper, \$94,427; Clarke County—3.743 mi. macad., Route 37, Berryville to Gaylord, Battershill & Terry, Virginia, \$67,669; Frederick, Warren and Shenandoah Counties—8.65 mi. macad., Route 33, point north to point south of Cedar Creek and bridge over Cedar Creek, Carpenter, Major Bros. & Co., Inc., Clifton Forge, \$49,777; Rappahannock County—63-ft. steel span over Thornton River, Route 37, near Sperryville, Roanoke Iron & Bridge Works, Roanoke, \$5277. 7-4

Va., Covington—State Highway Comm., H. G. Shirley, Commr., Richmond, will surface 1.3 mi. State Route 800, from Hilltop service station to turnoff to rayon plant, Alleghany County.

Va., Richmond—State Highway Comm., H. G. Shirley, Commr., Richmond, reported, will begin immediately, grading and other street development, of Du Pont Square, on Richmond-Petersburg Turnpike at Stop 17, opposite Du Pont rayon plant entrance.

W. Va., Charleston — City, Mayor Wertz, plans widening St., between Capitol St. and Chesapeake Ave.

W. Va., Clarksburg — Harrison County Court, Maurice L. Loudon, Clk., received low bids for 18 roads and bridge substructure, totaling \$141,756; Project N. 137, Davison Run road, Keeley Construction Co., Empire Bldg., Clarksburg, knapped stone base, \$7682; No. 140—Pine Bluff substructure, Luteu Bridge Co., York, Pa.; No. 143—Bingamon Creek, stone base, McKee & Balazick, Jefferson, Pa., \$7735; No. 144—Johnstown road, stone base, D. Rich, Weston; No. 146—Elliott road, stone base, Lanham & Courtney, Salem; No. 147—Tennile Creek-Sardis Dist., Lanham & Courtney; No. 148—Bridgeport-Grassell road, P. S. Horner Co., Goff Bldg., Clarksburg, \$10935; No. 149—Boothsville road, knapped stone, G. A. Kesling & Sons, \$12,525; No. 150—Simpson Creek road, grading, F. M. Ashcraft, Wallace; No. 151—Brushy Fork road, R. V. Thompson, Wallace; No. 152—Patterson Fork road, knapped stone base, Morris & Howell, \$11,042; No. 153—Grass Run road, Cole Bros. Construction Co., Morgantown, \$13,474; No. 154—Isaac's Creek road, grading, stone base Morris & Howell, \$7593; No. 155—Highland Bridge road, stone base, Keeley Construction Co., \$10,412; No. 156—Kincheol road, grading, Morris & Howell; No. 157—Big Buffalo road, Murphy Construction Co.; No. 160—Binghamon Creek road, Thos. P. Keenan & Co., \$11,241; No. 161—Nolan Run road, grading, stone base, R. V. Thompson, \$10,838. 6-27

W. Va., Clarksburg—Harrison County Court, Maurice L. Loudon, Clk., plans receiving bids for 1 mi. grading, draining, Tennile Creek road, Union Dist.; will surface 1 mi. Meadowbrook road, Eagle Dist.; surface Bridgeport-Grassell road, Simpson Dist. 6-27

W. Va., Charleston — Kanawha County Court plans expending \$550,000 for 6 roads in Cabin Creek Dist.: Kanawha River road, Cabin Creek junction to Fayette County line; Kelleys Creek road; Cabin Creek road; Hughes Creek road, all grading, draining, paving, or hard surfacing, etc.; Paint Creek road, including 3 bridges over Paint Creek, Burnwell, Ash Camp Branch, near Morton, Toms Branch at Whitaker; Field Creek road. See Financial News Columns.

W. Va., Fayetteville — Fayette County Court, O. A. Knerr, Pres., receives bids Aug. 7 for 2 roads: 3 mi. surface and 1,000 yd. base, on Project 8 Mt-Q-62, Quinnimont and Sewell Mountain Dist.; 2 mi. surface, Project K-51-B, Kanawha Dist.

W. Va., Clarksburg—City, D. H. Hamrick, Clk., plans conc. paving 14 streets and resurfacing with asphalt 15 thoroughfares; cost about \$75,000.

W. Va., St. Marys — Pleasant County Commrs., R. E. Griffin, Clk., plan expending \$60,000 for roads in Union Road Dist. See Financial News Columns. 7-4

Contracts Awarded

Alabama—State Highway Comm., Woolsey Finnel, State Highway Dir., Montgomery, receives bids Aug. 12 for 9 bridges approaches and road: Escambia County—over Perdido Creek; Conecuh County—approaches to Conecuh River Bridge; Randolph County—bridge between Lineville and Wedowee; Tuscaloosa County—bridge between Tuscaloosa and Centerville; Etowah County—bridge between Gadsden and Leesburg; Monroe County—2.5 mi. highway between Monroeville and Camden; Baldwin County—approaches to bridges over Perdido and Styx Rivers; bridge between Vernon and Mississippi State line; Wilcox County—approaches to Bear Creek Bridge.

Ala., Birmingham—City Comm. let contracts totalling \$119,530 for 21 paving and sewer projects, including Vanderbilt road, Fortieth Court, Fifty-ninth St. and Eighth Terrace; sanitary sewer at The Elms; Independent Paving Co., 3828 First Ave.; Southern Roads Co., Pioneer Bldg.; Reliance Concrete Co.; Mitchell Brothers Construction Co., 3828 First Ave.; Wesco Co., 4501 Second Ave.; Fromhold Brothers; W. H. Pattie, 2911 N. 29th St.; Fromhold Construction Co.; M. G. Harris, 452 S. 15th Pl., S. W.; A. J. Hawkins, City Engr.

Ala., Opelika—City let contract to Sullivan, Long & Hagerty, Bessemer, Ala., \$23,511, for paving sidewalks and streets around school buildings.

Arkansas—State Highway Comm., Dwight H. Blackwood, Chmn., Little Rock, let contracts totalling \$2,055,444, for 10 roads and 6 bridges: Woodruff County—6 1/2 mi. grading, draining, and 8 1/2 mi. gravel surface, State Highways, No. 17 and 37, Beedeville-McCroy road, Alexandria Contracting Co., Alexandria, La., \$51,829; St. Francis County—14 mi. grading, draining, Highway No. 70, Forrest City — West Memphis road, M. Tansey, Harrisburg, Ark., \$92,275; Lee County—9 mi. gravel surface, Highway No. 3, Clarendon-Marianna road, C.A.C. Construction Co., Little Rock, \$15,084; Clark County—6 mi. grading, draining, Highway No. 51, Arkadelphia-Gurdon road, J. C. Neal & Co., Hermitage, \$37,488; 8 1/2 mi. grading, draining, Highway No. 51, Gurdon-Arkadelphia road, O. M. New, Conway, \$49,195; Franklin County—10 mi. Highway No. 64, Ozark-West road, Batson Brothers, Dardanelle, \$30,386; Scott County—1 mi. grading, draining, and 583 ft. conc. pavement, Highway No. 71, Waldron-South road, Alexandria Contracting Co., \$19,070; White County—5 1/2 mi. Highway No. 67, Bald Knob-Judsonia road, Newell Construction Co., 320 Markham St., Little Rock, \$25,865.

Johnson County—7 mi., Highway No. 64, Ozark-Clarksville road, D. B. Hill, 320 Markham St., Little Rock, \$63,923; Logan County—5 1/2 mi. conc., Highway No. 22, Fort Smith-Dardanelle, L. V. Hites, Des Moines, Iowa, \$86,739, by concrete method; 11 mi. conc., Highway No. 22, Fort Smith-Dardanelle, L. V. Hites, \$177,760; Boone and Newton Counties—13 mi. gravel and crushed stone surface, Highway No. 65, Harrison-Marshall road, M. O. Weaver, Iowa Falls, Iowa, \$32,063; Craighead County—9 mi. Warrenite type Truman road, Fuller Construction Co., Resaphal surface, Highway No. 63, Nettleton-public Bank Bldg., Dallas, Tex., \$149,888; Conway and Faulkner Counties—7 mi. modified type asphalt surface, Highway No. 64, Plumerville-Fonway road, Newell Construc-

tion Co., \$80,137; Columbia County—14½ mi. gravel surface Highway No. 132, Magnolia-Taylor road, I. P. Shelby & Co., 503 W. 14th St., Little Rock, \$26,086; Van Buren County—17 mi. gravel or crushed stone surface. Highway No. 65, Marshall-Clinton road, Newell Construction Co., \$34,243.

In Poinsett County—9 mi. grading, draining. Highway No. 39, Jonesboro-Brinkley road, M. Taney, Harrisburg, Ark., \$31,595; Bridges: Madison County—136 ft. rein. conc. bridges Fayetteville-Huntsville road, Highway No. 45, Walsh & Thomas, Benton, \$11,283; Boone County—226 lin. ft. rein. conc. bridges, and 198 ft. earth embankment approaches, Highway No. 65, Harrison-Western Grove road, Maxwell Construction Co., Columbus Kansas, \$29,229; Craighead County—246 ft. rein. conc. bridges, Highway No. 18, Poplar Ridge-Monette road, J. B. Beaver, Benton, \$17,789; Union and Ashley Counties—steel highway bridge and rein. conc. approaches, over Ouachita River, Felsenenthal, Highway No. 2, Gauger-Korsmo Construction Co., Fidelity Bk. Bldg., Memphis, Tenn., \$452,510; Miller and Lafayette Counties—steel highway bridge and rein. conc. approaches, across Red River, Garland City, Highway No. 2, Kansas City Bridge Co., Kansas City, Mo., \$448,162; Yell County—327 lin. ft. rein. conc. deck girder bridges, and 739 ft. earth embankment approaches, Olaperry and Ola-Plainview roads, Highways No. 10 and 228, Williamson & Williams, Batesville, \$34,712. 7-11

Ark., Conway—City let contract to Ross & Dalton, Arkadelphia, \$32,920 for street paving; sold bonds.

Ark., Dermott—City let contract to T. H. Johnson Co., Dermott, \$146,444, for 45 blocks conc. and asphalt paving.

Fla., South Jacksonville, Jacksonville—City, Taylor J. Harris, Mayor, let contract to Capitol Concrete Co. to widen Atlantic Blvd. 6 ft., from Hendricks to Myrtle Ave.; Marcel Mazeau, City Engr. 6-27

Ga., Toccoa—Town let contract to T. D. Van Camp & Co. to pave Alexander St.; Warren K. Booker, City Engr. 6-27

La., Oak Grove—Town let contract to R. L. Young, Bastrop, La., \$8020, for about 2 mi. sidewalks.

Md., Baltimore—City, Bd. of Awards, let contract to American Paving & Contracting Co., Montebello Ave. and B. & O. R. R., \$44,562 to grade, curb and pave with sheet asphalt on conc. base, streets in Cont. No. 529, 10,400 sq. yd.; Nathan L. Smith, Highways Engr. 7-11

Md., Mt. Rainier—City, B. E. Sager, Clk., let contract to Jarboe & Houghton, Mechanicsville, \$64,727, for 1½ mi. 22-ft. wide conc. paving streets and sidewalks; J. Spencer Howard, Town Engr.

Md., Rockville — Montgomery County Comms. let contract to F. Irvin Ray, 1350 Jefferson St., N. W., Washington, D. C., \$9,780, for streets and sidewalks on North, East and West Lanes, Bethesda Dist.

Mo., Independence — City, Mayor Sermon, let contract to Brosnahan Bros., \$2.43 per sq. yd., to pave South Main St. with cement conc. from bridge over Lexington Branch tracks to Alton Ave.; to E. D. Tyner Construction Co., \$1.35 per sq. yd., for 1½-in. asphaltic conc. resurfacing from Alton Ave. to South Side Blvd.

Miss., Ellisville — Jones County Bd. of Supvs. let contract to Boddie Construction Co., Miss. Drug Bldg., Laurel, to gravel road from Barnums store to Summerland; E. E. Lovell, Columbia, for Cranford bridge.

Miss., Marks — Town, E. L. Boudreau, Clk., let contract to Barber Brothers, Kosciusko, at about \$20,000, to pave Main St., with 7-in. conc., from east to west end of corporate limits; Bobo & Collier, Engrs., Clarksdale. 6-27

Miss., Indianola — City, Mayor and Bd. of Aldermen, let contract to Dunn Construction Co., Birmingham, Ala., and Jackson, Miss., \$56,103, for paving several streets, including highway through city to Greenville, with Warrenite bitulithic; at \$6000 to grade, curb, gravel and lay storm sewers on West St.; W. R. Montgomery and associates, Engrs., Jackson.

Miss., Laurel — Jones County Bd. of Supvs. let contract to E. E. Lovell, Columbia, to gravel Cranford's Bridge-Ellisville Highway.

Mo., Mountain Grove — City Council let contract to W. E. Fogerson Construction Co., \$2.15 per sq. yd., for paving and curbing, Maple Ave., West First St. to Federal Highway, and West Second St., from Square to Maple Ave.

Mo., Springfield — City, C. A. Dickerson, Clk., let contract to E. V. Koch, 417½ Joplin St., Joplin, \$6125, to widen and pave Walnut St.

North Carolina — State Highway Comm., Raleigh, let contracts for 9 roads and 4 bridges; Beaufort County—9.24 mi. conc., Route 33, Chocowinity toward Aurora, Roberts Paving Co., Salisbury, Mo., \$195,861; Martin County—7 mi. dirt road, between Oak City and Hamilton, C. A. Ragland, Louisville, \$34,820; Craven County — 14.59 mi. dirt, Route 30, Bridgeton to Vanceboro, Dicus Brothers, Waynesville, \$153,171; J. S. Bowers, Whiteville, \$46,117 for structures; additions to Neuse River Bridge at New Bern, Route 30, J. S. Bowers, \$65,915; Gaston County—5.97 mi. conc., Route 27, Mount Holly to Sandy Creek, R. G. Lassiter & Co., Citizens Bk. Bldg., Raleigh, \$138,485; Hobbs, Peabody Construction Co., Independent Bldg., Charlotte, \$6,912, for structures; Stanley County—6.34 mi. conc., Route 740, Albemarle to Baden, W. F. Bowe, Jr., 536 Reynolds St., Augusta, Ga., \$113,787; 10.12 mi. conc., Route 74, Albemarle to Cabarrus County line, George R. Martin, Salisbury, \$162,573; Wilkes County — 9.16 mi. dirt, Route 60, West Fork to Lewis Creek Deep Gap, W. H. Anderson Construction Co., Medical Bldg., Asheville; 10.15 mi. dirt, Route 60, Millers Creek toward Watagua County line, Roberts Paving Co., \$64,463; Cleveland County — 7.24 mi. dirt, Route 18, Shelby to South Carolina line, Lee J. Smith, Flat Iron Bldg., Asheville, \$39,382; Hobbs Peabody Construction Co., \$29,656, for structures; Catawba County—bridge at Newton, C. X. Thompson, Greenwood, S. C., \$9,585; New Hanover County—1.12 mi. causeway, Route 20, Wilmington, P. R. Ashby, 2204 Fairview Rd., Raleigh, \$19,450.

S. C., Greenville—City, C. G. Wells, Clk., Treas., let contract to Greenville Paving Co., G. & N. Depot, for 7 or 6-in. conc. paving, curb, gutter, sidewalk, grading, etc.; Dan A. Hulick, City Engr. 7-11

Tenn., Ripley — Lauderdale County, Hard Roads Comm., W. C. Patten, Chmn., let contract to A. A. Davis & Co., Petroleum Bldg., Oklahoma City, \$13,341, for 4½ mi. grading, draining, etc., road from Arp to Central.

Tex., Marlin—Falls County, W. F. Turner, County Auditor, let contract to F. P. McElwath, Corsicana, at about \$30,000, for 6-in. rein. conc. paving of Public Square. 7-4

W. Va., Charleston—See Bridges, Culverts, Viaducts. 7-4

W. Va., Clarksburg—Harrison County Court, Maurice L. Loudon, Clk., let contracts to Thomas P. Keenan Co., Clarksburg, \$10,360, for 1 mi. bit. surface Robinson Run road. Eagle Dist. 6-27

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Birmingham — See Roads, Streets, Paving.

Ala., Montgomery—City Comm. let contract to R. G. Lassiter, Shepherd Bldg., for sanitary sewers on Woodrow Ave., Narrow Lane Rd., Watson St. and College St., and to McCalla & Kennan for sanitary sewers on Woodley Terrace, College Court and Fairview Ave.

Ark., Earl—City, Jack W. Rick, Clk., plans sewer extensions.

Ark., Hot Springs—City plans voting on \$300,000 bond issue for building 2 sewage disposal plants on Hot Springs and Gulpha Creeks.

Ky., Jackson—City receives bids Aug. 1 for sanitary sewer system. See Want Section—Bids Asked.

La., New Orleans—Sewerage & Water Bd. has low bid at \$44,053 from H. N. Moody, 815 Perdido St., for constructing sewage pumping stations 16, 17 and 18; and from A. P. Boh & Co., 837 Perdido St., at \$131,582 for constructing line and covered drainage canal and pipe lines in St. Claude Ave. from Jourdan Ave. to St. Bernard Parish line; and low bid at \$54,140 from Westinghouse Electric & Manufacturing Co., Masonic Temple Bldg., for motors, switches, transformers and accessories for stations 16, 17 and 18.

Md., Overlea—Baltimore County Comms., Towson, receives bids Aug. 5 for excavation of trenches, furnishing and laying vit. pipe sewers. See Want Section—Bids Asked.

Miss., Fulton—City, A. D. Graham, Mayor, receives bids Aug. 6 for sewer improvements; consists of constructing 10,560 lin. ft. 8-in., and 2600 lin. ft. 10-in. sewers; 200 lin. ft. 6-in. house branches, 40 man holes and flush

tanks, and conc. disposal plant; plans, etc., from James C. Lawson, Engr., Houston, Miss.

Miss., Hattiesburg—See Water Works.

Miss., Indianola—See Roads, Streets, Paving.

Miss., Jackson—See Roads, Streets, Paving.

Miss., Magnolia — City, Wright Leggett, Mayor, receives bids Aug. 6 for constructing sanitary sewerage extensions; specifications, etc., from Henry A. Mentz Co., Hammond, La.

Miss., Greenwood—Mayor and Comms. receive bids until Aug. 6 for refuse incinerator. See Want Section—Bids Asked.

Mo., Fredericktown—City, W. A. Engel, Mayor, let contract at \$81,840 to Joseph O'Neil, Leavenworth, Kan., for sanitary sewer system; work will consist of v. c. and c. i. pipe, plain manholes, drop manholes, lamp holes, settling tanks, disposal plant, etc.; W. A. Fuller Co., Engr., 2916 Shenandoah Ave., St. Louis. 7-4

Mo., Independence—City expend \$59,000 on sewers; R. Jones, City Engr.

Mo., St. Louis—Executive Committee of Boards of Supervisors organized in St. Louis County, to include seven districts, have prepared estimates covering sewer system in the county to be co-ordinated with St. Louis sewer system, not to exceed \$12,000,000, and to cover period of 20 yr., through issuance of assessment bonds; include Webster Groves, Central District, Overland District, Lenay Ferry District, Jennings District, St. Ferdinand District, Wellston District, Kirkwood District and Vinita Park District; plans have been completed by engineers in Webster Groves and Lemay Ferry districts and are ready for submission to Bd.; surveys now being made in Wellston and St. Ferdinand districts, work to begin as soon as surveys are completed; engineering plans for central district will be completed in about 30 days, for Overland district in 60 days and for Wellston and St. Ferdinand in about 6 months; W. W. Hornor, Consult. Engr., St. Louis.

N. C., Greensboro—City plans enlarging and improving sewage disposal facilities.

N. C., High Point—City, E. M. Knox, Clk., receives bids Aug. 14 for sewage disposal plant to serve West Side or Oak Hill District of High Point; Wm. C. Olsen, Inc., Consult. Engrs., 15 Exchange Place, Raleigh. See Want Section—Bids Asked.

Okla., Claremore—City voted \$54,000 bonds for sewer outfall extensions; J. M. York, Clk.

Tenn., Memphis—City voted \$950,000 sewer bonds. See Financial News Columns. 5-30

Tex., Lufkin—City let contract to McClelland & Green, 1st National Bank Bldg., Houston, at \$30,000, for additional unit for sewage disposal plant.

Tex., Pasadena—City votes Aug. 19 on \$45,000 bonds for sewer system. See Financial News Columns.

Tex., Dallas—City, J. Waddy Tate, Mayor, plans \$600,000 bond issue soon for sanitary sewers. See Financial News Columns.

Tex., Midlothian—City voted \$45,000 sewer bonds. 6-27

Tex., Richmond—City plans 7 mile sewerage system; cost \$50,000; Edminster & Cove, Engrs., Electric Bldg., Houston.

Tex., Sherman—City, O. J. S. Ellingson, Mgr., plans constructing sewer from Travis St. to Woods St. in alley between McGee and Porter St.

W. Va., Huntington—Bd. of Comms., receives bids July 31 for lateral sewer, alley between 25th and 26th St.; also for sanitary sewers and for storm and sanitary sewers; A. B. Maupin, City Engr.

Telephone Systems

Ga., Savannah—Southern Bell Telephone & Telegraph Co., Atlanta, authorized by County Comms. to place underground cables and subway on Ogeechee Rd. from city limits to Burkhalter Rd.

Md., Baltimore—Chesapeake & Potomac Telephone Co., R. L. Olsen, Standard Oil Bldg., drawing plans for telephone exchange, Curtis Bay; 3-story, brick; H. F. Doeleman, Struc. Engr., 516 N. Charles St.; C. L. Reeder, Mech. Engr., 916 N. Charles St.; Taylor & Fisher, Archt., Union Trust Bldg.

Okla., Holdenville — Southwestern Bell Telephone Co., C. W. Mear, Co.'s Archt., Oklahoma City, let contract to Smiser Construction Co., 2300 N. Broadway, Oklahoma City, for \$100,000 telephone building; heating, McEldwoner Electric Co.; plumbing, Binns Plumbing Co., 809 W. Grand St., both Oklahoma City.

Tex., Dallas — Dallas News and Dallas Journal let contract to Watson Co., 1927 Akard St., for superpower transmitting plant for Station WFAA, to be complete in 80 days; Fort Worth Structural Steel Co., 2700 W. Seventh St., has contract for conc. bases for towers; Herbert M. Greene, La Roche & Dahl, Archt., Construction Industries Bldg. 7-11

Textile Mills

Ala., Montevallo—Montevallo Cotton Mills will have plans ready for distribution about Aug. 1 for mill unit; 1 story and basement, 350x100 ft., conc. footings, brick walls, tar and gravel roof, c. i. columns, sprinkler system; Robert & Co., Engrs., Bona Allen Bldg., Atlanta, Ga. 7-4

Ga., Atlanta—U. S. Penitentiary, care L. B. Foster, plans erecting addition to cotton mill; rein. conc., brick, 4 stories and basement, 135x400 ft., conc., tile and hardwood floors, built-up roof; construction by day labor.

Ga., Calhoun—Chatham Rayon & Textile Corp., formed under laws of Delaware, will erect weaving mill for manufacture of rayon crepes, twills and georgettes; A. T. S. Mel-dru, Gen. Mgr.

N. C., Burlington—American Dye Works, Inc., reported, acquired dyeing and finishing department of Love Knitting Co. of West Burlington. 7-11

N. C., Durham—Durham Cotton Manufacturing Co., 2002 E. Pettigrew St., capital \$1,000,000, incorporated; W. A. Erwin, J. Harper Erwin.

N. C., Hickory—A. A. Shuford, Pres. and Gen. Mgr., Shuford Mill, reported, acquired Hickory Spinning Co.'s 30,000 spindle plant.

N. C., Paw Creek—Kendall Mills, Inc., let contract to Southeastern Construction Co., 210 W. Second St., Charlotte, for improvements to plant; expend \$40,000; Lockwood Greene Engineers, Inc., Engrs., 9 W. Third St., Charlotte. 7-11

Tenn., Cleveland—Debonair Full Fashioned Mill, incorporated; H. T. Bryan, Jr., J. B. Milligan.

Va., Danville — Danville Knitting Mills, capital \$500,000, incorporated; L. Herman.

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ark., Clarksville — City, Wilson Sharyer, Clk., plans constructing water works plant.

Fla., Fort Lauderdale—Federal Water Service Corp., 27 William St., New York, C. M. Chenery, representative, negotiating with city for purchase of city water plant.

Ga., Brunswick — Peoples Water Service Co., incorporated; L. J. Bennet, John J. Gilbert; construct water system.

Miss., Fulton—City, A. D. Graham, Mayor, receives bids Aug. 6 for improvements to water works system; work includes constructing mains for distribution system; 425 ft. 8-in., 8500 ft. 6-in. and 4500 ft. 4-in. c. i. pipe; conc. reservoir of 100,000 gal. capacity; motor driven pumps; valves; fire hydrants, etc.; specifications, etc., from James B. Lawson, Engr., Houston, Miss. 7-11

Miss., Hattiesburg—City voted \$450,000 water works and \$300,000 sewer bonds. 7-4

Miss., Houston—City, let contract at \$37,074 to Polglaze & Basenberg, American Trades Bldg., Birmingham, Ala., for constructing plant and extension to pipelines; work includes 5300 ft. 8-in. Class B c. i. pipe and 15,500 ft. 6-in. Class B c. i. pipe; erect 100,000 gal. conc. storage reservoir and brick pump house; install one 400 G. P. M. pump and motor and one 750 G. P. M. pump and gas engine; C. N. Harrib, Engr., Nashville, Tenn. 7-18

Miss., Indianola—See Roads, Streets, Paving.

Mo., Ozark—City voted \$10,000 bonds for water works system; receives bids soon for construction work to consist of 8-inch c.i. mains, fire hydrants, valves, boxes, 75,000 gal. elevated tank, deep well house; A. C. Adams, City Engr. 6-6

N. C., Concord—Bd. of Light & Water Comm., L. A. Fisher, Supt., let contract to McClelland Co., 9 W. Third St., Charlotte, for extension to water works; work includes filter unit, wash water tank, coagulating basin, etc.; install 1500 gal. 300 ft. head

pump driven by electric motor and gasoline motor for which contract has been let to Worthington Pump & Machinery Corp., Harrison, N. J., 2 Park Ave., New York; Gilbert C. White Co., Engr., 406½ W. Main St., Durham, N. C. 7-14

Okla., Byars — City plans constructing water works system; cost \$25,000; A. B. Carson, Engr., Norman.

Okla., Clinton—City voted \$600,000 bonds for water works. See Financial News Columns.

Okla., Fletcher—City plans expending \$30,000 on water works system; Miliken & Whiteneck, Engrs., Southwest Natl. Bk. Bldg., Oklahoma City.

Okla., Hollis—City, R. R. Cox, Mayor, plans constructing conc. reservoir; cost about \$30,000.

Okla., Pelly—City, W. H. Kiser, Mayor, plans expending \$25,000 for improving water plant; install fire hydrants; erect elevated and storage tank of 50,000 gal. capacity; J. W. Riggs, Contr.

Okla., Rosedale—City plans expending \$15,000 on water works system; A. B. Carson, Engr., Norman.

S. C., Columbia—City Council soon receives bids for pumping equipment at Columbia water works; cost \$30,000; W. S. Tomlinson, City Engr.

Tenn., Loudon—City voted \$85,000 water and sewer bonds.

Tenn., Mountain City—Town, J. E. Jones, Recorder, expend \$20,000 for water works extension; to consist of 540 ft. of 10-in., 1825 ft. of 8-in. and 8000 ft. of 6-in. c. i. pipe, erect reservoir; Albert Lyons, Contr., Rogersville; Campbell Wallace, Engr., Empire Bldg., Knoxville.

Tex., Clarksville—City, W. P. Cornelius, Mayor, plans expending about \$15,000 for enlarging and improving water system; work includes installing another pumping unit and putting down another well 15 or 18 inches in diameter.

Tex., Dallas—City, J. Waddy Tate, Mayor, plans \$2,000,000 bond issue soon for water works. See Financial News Columns.

Tex., Georgetown—John M. Gray, Del Rio, acquired 4000 acres.

Tex., Houston—City plans \$1,500,000 bond election for water works.

Tex., Houston — City, W. E. Monteith, Mayor, receives bids July 24 for constructing water mains in Brooke Smith Addition; specifications, etc., from Water Dept. Engr.

Tex., Humble—City votes Aug. 3 on \$100,000 bonds for water works system.

Tex., Midlothian—City voted \$20,000 water works bonds. 6-27

Tex., Pasadena—City votes Aug. 19 on \$38,000 bonds for water works system. See Financial News Columns.

Tex., Sweetwater—City, W. C. Bryan, Mayor, has selected site southeast of city in vicinity of Bitter Creek for reservoir for water supply; Hawley & Freese, Engrs., 411 Capps Bldg., Fort Worth; H. M. Roberts, Assoc. Conslt. Engr., Lubbock. 4-25

Woodworking Plants

Ark., Hot Springs—Hot Springs Millwork Co., organized to take over present Hot Springs Millwork Co.; Warren W. Wilson, manager of Wilson Lumber Co., president; plan \$10,000 plant within 60 days; 1-story, frame conc. floors, galy. roof; plan motorizing all machinery with direct drive electric motors; E. E. Breckenridge, Chrmn. Equipment Committee; J. D. Johnson, 726 Linwood St., Chrmn. Building Committee.

Va., Pulaski—Dunlap Veneer Corp., capital \$60,000, incorporated; Finley Dunlap.

Va., Marion—W. L. Lincoln Co., Inc., capital \$150,000, chartered; manufacture radio cabinets and furniture; W. S. Lincoln.

W. Va., Clarksburg—Southern Pine Lumber Co., Carl L. Hornor, Sec., acquired old glass plant, East Clarksburg, of Interstate Window Glass Co.; utilize for woodworking plant.

FIRE DAMAGE

Ala., Attalla—Mrs. Mollie Cox Stowers' residence; loss \$8000 to \$10,000.

Ala., Maplesville—John B. Higgins' planing mill.

Ark., Wheatley—Mill of Arkansas Rice Growers, H. K. Mith, Pres. and Gen. Mgr.; loss \$125,000; depot of Missouri & North Arkansas Ry. Co., W. Stephenson, Receiver, Harrison.

Ark., Morrilton—Three dwellings and plumbing shop, all owned by Geo. Scanlan; loss \$18,000.

Ky., Louisville—Alpine Hotel, near South Park, owned by N. B. Wigginton, 957 Cherokee Road; loss \$50,000.

La., Baton Rouge — Residences of Claude Date and J. A. Morgan, Lawndale.

N. C., Wadesboro—Mrs. Flora Redfearn's residence, White Stone Rd.

N. C., Morehead City — Atlantic Beach Amusement Resort; loss \$75,000.

Okla., Billings—Warehouse and 2 storage tanks owned by Champlin Refining Co.

Tenn., Henderson—The Woodward Hotel owned by R. C. Lykins.

Tex., Center—Post Office, address The Postmaster; J. F. Watson's meat market, J. M. Childress' shoe store; loss \$10,000.

Tex., Covington—J. D. Jones' store; First State Bank Bldg.; L. E. Fuller Drug Store; Wiseman & Paschal Drug Store; S. C. Thames Bldg.; loss \$75,000.

Tex., Fort Worth—Dwelling, 3212 Knox St., owned by L. G. Calborn, and adjoining dwellings; loss \$7000.

Tex., Italy—E. C. Russell's residence.

Tex., Refugio — Connor-Swift Mercantile Co.'s building; loss \$50,000.

Va., Bluefield—Odd Fellows Bldg., owned by Mrs. George Dodd, of Fashion Shop, and Independent Order of Odd Fellows; loss \$30,000.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

D. C., Washington—Ancient Free and Accepted Masons plan temple, Temple Heights, Connecticut Ave.; tentative drawings.

Tex., Beaumont — Salvation Army plans \$30,000 bldg. to replace present structure, Austin Ave. and Sixth St.

Tex., Dallas—Young Men's Christian Assn., W. A. Scott, Gen. Sec., purchased site, Tenth St. and Beckley Ave., Oak Cliff, for \$170,000 Oak Cliff branch.

Bank and Office

Ala., Birmingham—McWane Cast Iron Pipe Co., 3700 N. 11th St., erect brick office bldg.; stone trim, rein. conc., steel, gypsum walls, 3 stories, slate roof, steam heat; Warren, Knight & Davis, Archts., Protective Life Bldg.

Ark., Fort Smith—I. H. Nakdimen, care City National Bank, plans \$750,000 office bldg.; may select Eugene John Stern, A. O. U. W. Bldg., Little Rock, as architect.

Ga., Atlanta—Fourth National Bank purchased site for branch bank, Peachtree and Linden Sts.; no immediate plans.

Ky., Louisville — Portland Building & Loan Assn., Sixth & Jefferson Sts., remodel brick and stone office bldg., 645 W. Market St.; \$20,000.

Mo., Jefferson City—Sam Bushman, Atty., prepared articles of incorporation for company to erect 2 office floors over First National Bank; \$175,000; drawing plans; Simon & Simon, Contrs., Columbia, may secure contract.

Mo., St. Louis—R. K. Knox, Archt., Arcade Bldg., drawing plans to remodel 2-story bank bldg.; brick, 28x125 ft.; stone or terra cotta front, terrazzo floors, vault.

N. C., Charlotte—Industrial Loan & Investment Bank remodel bldg.; M. E. Boyer, Jr., Archt., 1516 E. Fourth St.

N. C., Durham—W. A. Erwin, Sr., considers erecting 8-story professional building, Gregson and Morgan Sts.

Tex., Port Arthur—First National Bank let contract to Hickey & Harrington to raze old bldg., Procter and Austin Sts.; erect 3-story, 50x140-ft. brick or stone bldg.; Favrot & Livaudais, Ltd., Archts., Hibernia Bldg., New Orleans, La. 4-11

Tex., Beaumont—Merchants National Bank, Austin Ave. and Fifth St., considers remodel present and adjoining bldg. for banking quarters; \$100,000; Favrot & Livaudais, Ltd., Archts., Hibernia Bldg., New Orleans, La.

Tex., Brownsville — T. Saxe, Milwaukee, Wis., plans 6-story and part basement store and office bldg.; brick and rein. conc., 34-000 sq. ft. floor space.

Tex., Fort Worth—R. O. Dulaney, Petroleum Bldg., and associates erect 15-story brick and stone office bldg., site Van Zandt Bldg., Fifth and Main Sts.; \$1,000,000, granite base, cast stone or terra cotta for 2 stories, remainder cast stone, terra cotta or brick, plate glass windows, 3 elevators; Mr. Dulaney and Harry B. Friedman, contractor, First Natl. Bk. Bldg., inspecting bldgs. in other cities.

Churches

Ga., Atlanta—Ponce de Leon Ave. Baptist Church, Geo. M. Brown, 40 Muscogee Ave., Chmn., Bd. of Deacons, does not plan immediate erection of church. 7-18

Mo., Ferguson, St. Louis—Immanuel Evangelical Church erect brick bldg.; 1½ stories and basement, 92.9x44.4 ft.; T. P. Barnett Co., Archt., Arcade Bldg., St. Louis; bids in.

Mo., West Plains—Pentecostal Church completed plans for field stone bldg., Leyda Ave.; 1 story and basement, 36x60 ft.

Okla., Wewoka—First Christian Church, Rev. S. H. Anglemeyer, Pastor, erect \$50,000 building.

Tenn., Knoxville—Epworth M. E. Church, South, J. E. Elmore, Chmn., Bldg. Comm., remodel and enlarge bldg., Highland Ave. and 16th St.; Gothic type, brick, 2 stories, auditorium seat 450, classrooms, dining room and kitchen, \$50,000; Clem H. Meyer, Archt., Deaderick Annex; contract within 2 weeks.

Tex., Fort Worth—First Baptist Church, Throckmorton, Fourth and Taylor Sts., A. L. Jackson, Chmn., Bd. of Trustees, erect 6-story church instead of 16-story church and hotel bldg. previously announced; \$500,000, fireproof, steel and conc., 200x100 ft., 40,000 sq. ft. in auditorium, acoustical treatment, about 6000 upholstered leather opera seats, rest rooms, nursery, drinking fountains, indirect system of lighting, floors covered with inlaid linoleum, motion picture equipment, radio broadcasting equipment, automatic air cooling system, stage to accommodate choir of 800 members; W. G. Clarkson & Co., Archts., First Natl. Bk. Bldg. 5-7

Tex., Silverton—Methodist Church, R. E. Douglas Sec.-Treas., Bldg. Comm., erect \$10,000 brick bldg.

Va., Richmond—Northside Baptist Church, Rev. W. R. Flannagan, Pastor, plans \$90,000 Sunday school; auditorium later.

City and County

Fla., Jacksonville—Trustees of Jacksonville Free Public Library receives bids July 30 for branch library, Park and Cherry Sts.; brick, 1 story, 220x150 ft., steel truss roof; plans on file with trustees; Bernard W. Close, Archt., Bisbee Bldg.; following contractors estimating: Henry Taylor & Sone, 2057 Lackawanna St.; H. S. Baird, Atl. Bk. Bldg.; Neal D. Evans, Adair Bldg.; O. P. Woodcock, Lutz Bldg.; Arthur Perry, Jr., Bisbee Bldg.; W. T. Hadlow, 32 W. Forsyth St.; C. J. Holton, 718 Hill St.; W. L. Snelson; J. M. Raymond Construction Co., Hildebrandt Bldg.; Milburn Construction Co.; Geo. Auchter, 1361 Avondale; S. S. Jacobs. 6-27

Ky., Lexington — Fayette County Fiscal Court, Chester D. Adams, County Judge, considers erecting jail; structure to house 300 would cost about \$300,000; may call bond election.

Ky., Louisville — Board of Public Works erect comfort station near city hall after plans by Arthur G. Tafel, Archt., 130 S. Third St.; 20x40 ft.; 2 stories, conc. floors, roof and foundation, \$10,000; Warren & Ronald Engrs., Heyburn Bldg. 7-18

La., New Orleans—City, A. S. Montz, City Archt., receives bids until Aug. 6 for stable, N. Roman and St. Louis Sts.; rein. conc., brick, steel truss, 1 story, 120x70 ft., rein. conc. foundation, steel and iron work, sheet metal work, steel sash, rein. conc. floors, asbestos shingle roof; plans from office City Purchasing Agt., City Hall. 7-11

Md., Rockville—Montgomery County Bd. of Commrs., Dr. Benj. C. Perry, Pres., Bethesda, selected Delos Smith, 1207 1st, N. W., as const. architect for courthouse; limestone front; extend 2 blocks; \$250,000 now available; Rossell Edw. Mitchell, Archt.-Engr., Barr Bldg., both of Washington, D. C. 12-27

Mo., Kirkwood, St. Louis—City of Kirkwood, Mayor Jacobsmeier, voted \$50,000 bonds for fire station and equipment; brick and stone, 2 stories; Dan Mullen, Jr., Archt., 18 N. Meramec St.; preliminary plans.

Mo., Joplin—Park Bd. erect \$20,000 clubhouse, Schifferdecker municipal golf course; \$10,000 to be raised by public subscription.

Mo., St. Louis—Board of Public Service has low bid at \$47,187 from Robt. Paulus, 2205 Ann Ave., for Fire Station No. 21, Market St. near Ranken St.; E. E. Christopher, Archt., 317 N. 11th St. 7-4

N. C., Waynesville—Haywood County Bd. of Commrs. repair courthouse and jail; \$40,000; Benton & Benton, Archts. 2-21

Okla., Cherokee — City, C. H. Guernsey, Clk., let contract to Geo. Hockman, Cherokee, for Spanish type fair bldg.; brick, tile and stucco, steel trusses; R. W. Shaw, Archt., Enid.

Okla., Newkirk—City has plans by W. V. Street, Wichita, Kan., for \$10,000 community bldg.; brick, 1 story, 50x150 ft. 3-28

Okla., Texhoma — City votes July 30 on \$25,000 city hall and fire dept. bonds. Address City Council.

Tenn., Memphis—City Park Comsn., John T. Willingham, Commr., erect \$30,000 auditorium and community house for negroes, Church's Park; steel and rein. conc., auditorium seat 1500; Harker & Cairns, Archts., 123 S. Court St.; probably soon call for bids.

Tex., Columbus — City defeated \$25,000 city hall bonds. 6-27

Tex., Houston—City, H. L. Shaw, City Engr., may rehabilitate old Scanlan Bldg., Smith and Preston Sts., for engineering dept. headquarters; \$45,000.

Tex., New Braunfels—City, H. A. Friesch, Mayor, having plans drawn by Jeremiah Schmidt, Archt., New Braunfels, for \$35,000 city hall; face brick, conc. and hollow tile, cast stone, 1 story and basement, vault; jail in basement; Beretta-Stiles Co., Inc., Const. Engr., Natl. Bk. of Commerce Bldg., San Antonio. 6-13

Tex., Sanderson—Terrell County Bd. of Commrs. probably have plans ready about July 31 to remodel courthouse; Henry T. Phelps, Archt., Hicks Bldg., San Antonio. 6-20

S. C., Charleston—Charleston County Bd. of Commrs. consider remodeling and enlarging jail.

Tex., San Antonio—City, C. M. Chambers, Mayor, selected John M. Marriott, Frost Bldg., as architect for San Pedro Park branch library, N. Flores St., and Albee B. & Robt. M. Ayres, Smith-Young Tower, as architects for Roosevelt Park branch library; both fireproof, 1 story, \$25,000 each.

Va.-Tenn., Bristol—Bristol, Va., and Bristol, Tenn., considering erecting joint library; \$9500 bonds voted by Tennessee side; Bristol, Va., would appropriate like sum. 7-11

Dwellings

Ala., Birmingham—W. V. Trammell, 2109 N. Fifth Ave., erect brick veneer residence Mt. Brooke Estates; 2 stories, 47x47 ft., comp. roof, steam heat; Jacob E. Salle, Archt., Empire Bldg.

Ark., McCrory—Vance Thompson considers erecting brick veneer residence; 1 or 2 stories and basement.

D. C., Washington — H. R. Howenstein, 1311 H. St., N. W., has permit for 4 brick dwellings, 4005-16-13-17 Twenty-first St., N. E.; 2 stories; \$22,000.

D. C., Washington—Mrs. Gertrude Atherton, care Wyeth & Sullivan, Archts., 16 Jackson Place, N. W., erect 2½-story brick residence and garage, Massachusetts Ave. near S St., N. W.

D. C., Washington—Waddy B. Wood, 16 Jackson St., N. W., has permit for 2 brick dwellings, 1903-09 Twenty-third St., N. W.; 2 stories; \$32,000.

D. C., Washington — Marcus T. Goldman, 720 21st St., N. W., has permit for \$11,000 addition to residence, 720 Twenty-first St., N. W.; 3 stories, brick.

D. C., Washington—Norman W. Oyster, 900 Pennsylvania Ave., N. W., has permit for \$25,000 residence, 2701 Thirty-second St., N. W.; stone and brick, 3 stories.

D. C., Washington—Duncan Phillips, 1218 Connecticut Ave., N. W., has permit for brick garden walls, 2101 Foxhall Rd.; \$10,000.

Fla., Miami Beach—Dr. H. H. Fox, care C. LeRoy Kinports, Archt., 3897 Kumquat Ave., Coconut Grove, erect stucco, rein. conc. and conc. block residence, garage and servants' quarters, Prairie Ave. and Dade Blvd.; 2 stories, tile and oak floors, cast stone trim, orna. iron work; ready for bids about Aug. 1.

Fla., Miami Beach—W. H. Kirn, 74 Arden Pike, Detroit, Mich., erect residence, garage and servants' quarters Pine Tree Drive near 59th St.; stucco and Dennison or Universal hollow tile, cast stone trim, 2 stories, 36x70 ft. and 23x29 ft., Mifflin tile roof over Armstrong cork, terrazzo and oak floors, tile baths; Klehnel & Elliott, Archts., Seybold Bldg., Miami; bids in. See Want Section—Building Material and Equipment.

Fla., Miami Beach—Mrs. Selenia Wagner, care C. LeRoy Kinports, Archt., 3897 Kumquat Ave., Coconut Grove, erect \$14,000 residence, garage and servants' quarters, Prairie Ave. and 30th St.; rein. conc. and conc. block, cast stone trim, 2 stories, tile and oak floors, tile roof, orna. iron work; probably call for bids early in August.

Fla., Miami Shores—Oscar E. Dooley, Jr., work at once on \$35,000 residence, Shoreland Vice-Pres., Bank of Bay Biscayne, start Blvd.; Valencia tile floors on first floor, 3-car garage with servants' quarters and bath; Wm. F. Brown, Archt., Bastion Bldg., Miami Beach.

Fla., Tampa—U. S. Phosphoric Products Corp., Ruskin Rd., reported, plans dwellings and apartments for employes, connection with plant construction on Hillsborough Bay.

Ga., Lithonia—Norton Davidson erect \$12,000 residence; stone, rein. conc. floor slab, 2 stories and basement; H. A. Rawlins, Archt., Decatur.

Ga., Rome—Mrs. C. H. Gunn erect brick veneer residence; 2 stories, hardwood floors, tile baths, 8 rooms, 2 baths, comp. shingle or slate roof, steam or hot air heat; Lockwood & Poundstone, Archts.; Edw. F. Billie, Asso. Archt., both 101 Marietta Bldg., Atlanta.

Ky., Owensboro—Harry Bruder erect 2-story brick cottage, Buena Vista Courts.

La., New Orleans—Edgar L. Kelly, Pres., Globe Construction Co., Louisiana Bldg., considers erecting Colonial residence, Farnham Place, Metairie; ready for bids about 30 days.

La., New Orleans—Arthur Schott, 2716 St. Bernard St., has low bid at \$22,659 from J. A. Haase, Jr., 916 Union St., for residence; Martin Shepard, Archt., Balter Bldg.

Md., Baltimore—J. D. Steele, Key Highway and Jackson St., erect residence, Roland Ave. near Wyndhurst Ave.

Md., Baltimore—D. M. Hendler, care Hendler Creamery Co., 1100 E. Baltimore St., remodel and enlarge residence, 904 Lake Drive; L. R. White, Archt., Hearst Tower Bldg.

Md., Baltimore—J. H. Riede, 3801 Liberty Heights Ave., erect \$20,000 residence, St. Dunstan's Rd.; stone, 2½ stories; Cyril H. Hebranks, Archt., Central Savings Bk. Bldg.

Md., Baltimore—J. J. Requard, Community Bldg., erect 4 frame dwellings, 2922-28 Northern Pkwy.; \$18,000.

Miss., Laurel—J. L. Collins erect \$15,000 brick veneer residence; P. J. Krouse, Archt., M. & W. Bldg., Meridian.

Mo., St. Louis—Geo. Dauss, care Ewald & Allen, Archts., Rialto Bldg., erect brick residence, University Hills subdivision; 2 stories and basement, 34x36x17.6x23 ft., hardwood and tile floors, Spanish tile roof, tile bath.

Okla., Oklahoma City—Milton Jennings Co. erect 7 duplexes and 1 single dwelling; \$40,000.

Tenn., Knoxville—V. H. McLean, care McLean-Rector & Scott, 615½ Market St., erect \$15,000 residence, Chamberlain Ave.

Tenn., Knoxville—J. B. Reed, Journal Arcade, has permit for \$10,000 residence, Cherokee Blvd.

Tenn., Knoxville—M. G. Chambers, 1636 White Ave., has permit for \$10,000 residence, Hillvale Ave.

Tenn., Memphis—J. Stovall, 3715 Central Ave., erect \$30,000 brick and stucco English type residence, Central Ave.; 2 stories, hardwood floors, slate roof; I. D. McDaniel, Archt., Goodwyn Inst. Bldg.

Tex., El Paso—H. C. Kramp, 915 Dallas St., erect \$10,000 residence, 2815 Richmond St.; brick, 7 rooms.

Tex., El Paso—Dr. J. W. Cathcart, 1401 E. Nevada St., erect \$15,000 residence, 115 Hardaway St.; brick, 2 stories, 10 rooms.

Tex., Houston—J. B. Ross erect Colonial residence, Bluebonnet Drive, Braceswood; brick veneer, 2 stories, 2 baths, hardwood floors, 3-car garage and servants' quarters; Chas. S. Chase, Jr., Archt., 212 Hawthorne St.

Tex., Houston—W. L. Edmundson, Second Natl. Bk. Bldg., erect 6 brick veneer dwellings, Wilshire, Auburndale, Cumberland and Oakcliff Sts.; 4 and 5 rooms; \$15,000.

Tex., Houston—O. S. Carlton, Jr., care Great Southern Life Insurance Co., plans residence, Inwood Drive, River Oaks.

Tex., San Antonio—Raymond Krause, care San Antonio Clinic Pharmacy, erect Spanish type residence, Broadway Place; brick veneer, 1 story, 8 rooms, comp. shingle roof; Albough & Steinbomer, Archts., Real Est. Bldg.; Lilly-Drought, Engrs., Frost Bldg.

Government and State

La., Monroe—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., plans \$40,000 post office annex; brick, 1 story, probably 31x42 ft.

N. C., Hamlet—Z. V. Pate, Laurinburg, erect bldg. for post office, Main St.; brick, 2439 sq. ft. floor space, 1 story and basement, with provision for additional floor; 20x45-ft. store.

Okla., Ponca City—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, will select site for post office; \$185,000 appropriation available for building.

Tex., Randolph Field, San Antonio—Constructing Quartermaster, Capt. A. W. Parker, receives bids Aug. 15 for first unit of \$14,000,000 flying school to be called Randolph Field; present constr. is for following: Barrack bldg. for 300 men, 470 by about 75 ft. and 5 barracks for 250 men each, 368 ft. by about 75 ft., all of masonry walls, stucco, tile roofs, separate heating plants, kitchens and mess halls; five one-story and 3 two-story field officers' quarters, 14 one-story and 46 two-story company officers' quarters, all masonry, stucco, tile roofs, Spanish type, with heating plant, laundry and storage rooms in basements; 47 double n. c. o. quarters of same constr., each quarters 1 and 2 stories, laundry and heating plant in basements; quartermaster warehouse with refrigerating plant and Air Corps warehouse, each 90x485 ft., steel frame, stucco finish, tile roofs. 7-11

Tex., San Antonio—National Guard, Lt. Col. Wayne Davis, Commr., 141st Infantry, plans \$60,000 to \$70,000 armory near S. Flores St. arsenal; conc., stucco and natural stone, fireproof, about 120x80 ft.; plans by Lieut. Richard Werner, Company F.

Va., Harrisonburg—Additional contractors estimating on remodeling and enlarging post office and courthouse, bids July 29 by Treasury Dept., Jas. Wetmore, Act. Supvg. Archt., Washington, D. C.; J. A. Jones Construction Co., Commercial Natl. Bk. Bldg., Charlotte, N. C.; Building Repair Co., Staunton, Va.; E. E. Garber & Co., Bethlehem, Pa.; Griffiths Construction Co., Arcade Bldg.; Wm. MacDonald Construction Co., Synd. Tr. Bldg., both St. Louis, Mo.; Deitrich Bros., 220 Pleasant St.; McCall & Watts, 3404 Marmon Ave., both Baltimore, Md.; Chas. Weitz' Sons, 713 Mulberry St., Des Moines, Iowa. 7-18

Hospitals, Sanitariums, Etc.

D. C., Washington—Additional contractors estimating on alterations to clinic, U. S. Veterans Hospital, Mount Alto, bids July 30 by U. S. Veterans Bureau, Arlington Bldg.; R. K. Ferguson, Inc., 212 Thirteenth St., N. W.; Martin Bros., 1341 Connecticut Ave.; C. Harrison Smith Co., 1518 K. St., N. W.; W. E. Mooney, 2525 Pennsylvania Ave.; Jones & Casley, 511 E. St., N. W.; Skinker & Garrett, 14136 F St., N. W.; Arthur L. Smith Co., 2539 Pennsylvania Ave., N. W., all Washington; J. Geo. Bensele Co., 3005 Shannon Drive, Baltimore, Md. 7-18

Fla., Arcadia—Arcadia Hospital, A. J. Dozier, Pres., plans addition; 6 rooms and X-ray department.

Ga., Atlanta—Additional firms estimating on \$650,000 U. S. Veterans Hospital, bids Aug. 6 by U. S. Veterans Bureau, Arlington Bldg., Washington, D. C.; Wm. W. Durnall, Inc., 213 S. Tennessee Ave., Lakeland, Fla.; Richmond Fireproof Door Co., Richmond, Ind.; Truscon Steel Co., Hill Bldg.; John Douglas Co., Union Tr. Bldg., Both Washington; Concrete Engineering Co., Inc., Plaza Bldg., Pittsburgh, Pa.; Decatur Concrete & Roofing Co., Inc., Decatur, Ala. 7-18

Ga., Augusta—United States Veterans Bureau, L. H. Tripp, Ch. Constr. Div., Arlington Bldg., Washington, D. C., may erect 139-bed addition to U. S. Veterans Hospital.

Ga., Griffin—Dr. Kenneth S. Hunt erect \$50,000 Robert F. Strickland & Sons Memorial Hospital; fireproof, brick.

Md., Baltimore—West Baltimore General Hospital, Rayner Ave. and Dukeland St., selected Theo. Wells Pietsch, American Bldg., and John Freund, 1307 St. Paul St., as asso. architects for enlargement program; present plans call for \$225,000 3-story and basement fireproof maternity bldg. to accommodate 60 beds and 50 bassinets, \$120,000 1-story and basement power plant and laundry bldg. and \$90,000 1-story and basement kitchen and dining room bldg., all connected by \$25,000 enclosed passageway; equipment \$40,000; brick, steel and concrete; raising funds.

N. C., Biltmore, Asheville—Biltmore Hospital having plans drawn by Douglas D. Ellington, Archt., Asheville, for \$100,000 fireproof Battle Wing; rein. conc., brick and tile, hardwood, tile and comp. floors, comp. roof, steam heat, 3 stories and basement, 41x120 ft.; remodel bldg. for nurses' quarters; preliminary plans. 6-6

N. C., Goldsboro—Wayne County Bd. of Commrs. appropriated \$25,000 for tuberculosis sanatorium.

N. C., Raleigh—State Hospital, Dix Hill, Albert Anderson, Supt., receives bids until Aug. 6 for isolation bldg. for women and additions to bldgs. for epileptic men and women; separate bids for plumbing and heating; drawings from Chas. C. Hook, Archt., Commercial Bk. Bldg., Charlotte, N. C., and Wiley & Wilson, Engrs., Peoples Natl. Bk. Bldg., Lynchburg, Va. (for heating); following contractors estimating: Wesley T. Heath Corp.; J. P. Little & Son; J. A. Jones Construction Co., all Charlotte.

Okla., Lawton—Kiowa Indian Agency start work within 30 days on \$91,000 addition to hospital, Dr. H. W. Langhein, Supt.

Tenn., Memphis—City, D. C. Miller, City Clk., voted \$200,000 bonds for additions, improvements and equipment for Memphis General Hospital. 6-6

Tex., Houston—City will have plans drawn by H. L. Shaw, City Engr., for temporary outpatients' bldg. and addition to nurses' home, Jefferson Davis Hospital; latter accommodate 25; \$50,000.

Tex., San Antonio—J. E. Lozano, 816 W. Mulberry St., is head of group to erect \$40,000 to \$50,000 charity hospital, San Saba and San Luis Sts.

Tex., Smithville—Lions' Club interested in bond election or special tax for hospital.

Hotels and Apartments

D. C., Washington—Goldsmith & Keller, Evans Bldg., soon call for bids for \$400,000, 8-story, brick, 71-apartment, 143 Rhode Island Ave., N. W.; W. Harris, Archt., 1741 Rhode Island Ave., N. E.

D. C., Washington—Eugene A. Smith, Inc., 923 15th St., N. W., has permit for \$300,000, 5-story, brick, conc. and tile apartment, 4007 Connecticut Ave., N. W.

Fla., Miami Beach—Dr. T. H. Duncombe, Rochester, Mich., owner of Rainbow Hotel, First St. and Ocean Drive, reported, erect 12-story hotel on site present structure.

Fla., Palm Beach—Ambassador Hotel Co., Park Ave. and 51st St., New York, soon call for bids for \$350,000 addition to Palm Beach Ambassador Hotel, formerly known as the Alba; Treanor & Fatio, Archts., 3 E. 44th St., New York, and Phipps Plaza, Palm Beach. 5-16

Fla., Palm Beach—Palm Beach Co., Seaview Ave., reported, erect \$150,000, 6-story, 3-apartment near Royal Palm Way bridge.

N. C., Asheville—Carolina-Tennessee Corp. soon call for bids for \$30,000 8-apartment.

Okla., Oklahoma City—Fulton Jennings Co. has permit for \$20,000 apartment, 437 W. 25th St.

Tenn., Memphis—S. D. Stuart, 902 Estival St., soon let contract for 2-story, 35x60 ft., brick veneer apartment, College St. and McLemore Ave.; comp. roof, oak floors, steam heat; W. C. Lester, Archt., Derrmon Bldg.

Tenn., Memphis—P. E. Kerby, 1144 Tanglewood St., erect \$30,000, 2-story, 115x65 ft., brick, 8-apartment, Union Ave. and Tucker St.; tile roof, steam heat; I. D. McDaniel, Archt., Goodwyn Institute Bldg.

Tenn., Nashville—Southern Cities Hotel Corp. soon start work on Riviera Tourist Hotel on Gallatin Road; \$75,000, stucco, Spanish type.

Tex., Abilene—H. O. Wooten has low bid at \$311,000 for 16-story hotel and at \$83,500 for 4-story, 75x240 ft. theater from R. E. McKee, 1916 Texas St., El Paso; first 3 stories of hotel 75x140 ft., 13-story shaft 50x50 ft.; both buildings brick, stone, tile and

terrazzo floors; hotel to be leased to Al Badger & Associates; theatre leased to Dent Theatres, Inc., 2009½ Jackson St., Dallas; David S. Castle Co., Archt., Alexander Bldg., Aldene. 7-4

Tex., Hemphill—S. R. Williams ready for bids about July 30 for \$35,000, 2-story, 41 x 96 ft., brick veneer, 30-room hotel; wood floors, asbestos shingle roof; Giesecke & Harris, Archts., 207 W. 7th St., Austin. 7-11

Tex., San Antonio—F. M. Van Kauren, 645 Rayton St., erect 2-story and basement, 50x160 ft., 32-apartment, 118 Callahan St.

W. Va., Charleston—W. S. Mason, 204 Bradford St., has permit for remodeling Chesterfield Club into apartments; \$11,000.

Miscellaneous

Ark., Fayetteville—Mrs. Wm. Reep plans building for Fayetteville Faith Home.

Ga., Atlanta—Home for Friendless, Mrs. Harold Wey, Pres., has low bid at \$46,018 from W. B. Hiers, 1497 Westwood Ave., S. W., for 3 buildings; 1 and 2 stories and part basement, 92x36 ft., brick, comp. roof, hardwood and tile floors, steam heat; Ivey & Crook, Archts., Candler Bldg. 7-18

Ky., Louisville—Louis K. Liggett Co., 41 E. 42nd St., New York, leased storerooms, 302-04 S. 4th St., in Marion E. Taylor Bldg., and expend approx. \$50,000 for remodeling, fixtures and furnishings; work to begin about Sept. 1.

La., Oakdale—Oakdale Furniture and Trading Co. erect funeral home on 9th St.

Md., Bethesda—Baptist Home for Children, E. Hilton Jackson, Chmn., Bldg. Comm., 904 Newton St., N. E., Washington, D. C., having plans prepared by A. P. Clark, Jr., 816 14th St., N. W., Washington, for two 2-story, stone, English type dormitories; \$110,000.

Tenn., Eastlake—Kosmos Cottage Assn., Mrs. M. N. Whitaker, Pres., has plans by R. H. Hunt Co., James Bldg., Chattanooga, for \$30,000 Kosmos Cottage; 2 stories, brick, comp. shingle or slate roof, tile and hardwood floors, steam heat.

Tex., Dallas—See Okla., Oklahoma City.

Tex., El Paso—Jack McDonald having plans prepared by Braunton & McGhee, First Natl. Bk. Bldg., for converting Red Mill Dance Hall property into Red Mill Tourist Camp.

Tex., Galveston—Galveston Yacht Club, Robert Sealy, Commodore, erect clubhouse.

Tex., Houston—See Okla., Oklahoma City.

Tex., San Antonio—See Okla., Oklahoma City.

Tex., San Antonio—Cavaliers' Saddle Club, R. W. Morrison, Pres., having plans prepared by Elkenroht & Cocke, Maverick Bldg., for rein. conc. and hollow tile, Spanish type clubhouse, Basse Road and San Pedro Ave.; steel, asbestos and hollow tile, fireproof stables to accommodate 50 horses; \$100,000.

Tex., Tyler—East Texas Fair Assn., Russell S. Rhodes, Sec., soon let contract for Woman's Building; brick veneer, conc. floor, metal roof; R. T. Nunamaker, Archt.

Va., Ocean View—Ocean View Golf and Country Club, Guy Webb, Pres., Norfolk, receives bids Aug. 1 for \$35,000, 1-story, stucco, English type clubhouse, Norfolk Ave. and Sherwood Place; B. F. Mitchell and Rudolph, Cooke & Van Leuwen, Inc., Asso. Archts., Arcade Bldg., Norfolk. 2-21

Railway Stations, Sheds, Etc.

Ga., Atlanta—Following contractors estimating on \$500,000 passenger station for Nashville, Chattanooga & St. Louis Rwy., H. McDonald, Ch. Engr., Nashville, Tenn., bids July 29; George A. Clayton & Co., Bona Allen Bldg.; Carr Construction Co., Candler Bldg.; The Flagler Co., Red Rock Bldg.; Griffin Construction Co., 452 Spring St., N. W.; Sam N. Hodges Co., 579 Peachtree St., N. E.; J. S. McCauley & Co., Bona Allen Bldg.; Pittman Construction Co., Rhodes Bldg.; Southern Ferro Concrete Co., 70 Ellis St., N. E.; Smith & Williams Co., Red Rock Bldg.; National Construction Co., Glenn Bldg.; Brazell & Miller, Norris Bldg.; MacDougald Construction Co., 259½ Peachtree St., N. E.; Foundation Co., 101 Marietta St.; Grann Construction Co., Red Rock Bldg., all Atlanta; Angle-Blackford Co., American Bk. Bldg., Greensboro, N. C.; T. S. Moudy & Co., Chamberlain Bldg.; John Parks Co., 315 Oak St., both Chattanooga, Tenn.; Foster & Creighton Co., Fourth and First Bldg., Nashville; McDonald & Co., Archts.-Engrs., Southeastern Trust Bldg.; Robert S. Fiske, Consltg. Engr., both Healey Bldg., Atlanta. 7-18

N. C., Greensboro—Southern Rwy. System, G. L. Sifton, Ch. Engr., M. W. & S. Lines East, Charlotte, plans freight station.

Tex., Fort Worth—Gulf, Colorado & Santa Fe, F. Merritt, Ch. Engr., Southern Pacific Lines, R. W. Barnes, Ch. Engr., both Houston, and tenant lines—Fort Worth & Denver City Ry. Co., R. C. Gowdy, Ch. Engr., Denver, Col., and Cotton Belt Rwy., F. G. Jonah, Ch. Engr., St. Louis, plan passenger station and addition to freight station.

Schools

Ala., Auburn—Alabama Polytechnic Institute, Dr. Bradford Knapp, Pres., rejected bids and soon call for new bids for \$125,000, 3-story and basement, 155x90 ft., animal husbandry building and 1-story and basement, 63x154 ft., dairy barn; rein. conc., brick, Indiana limestone trim, slate roofs; Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham. 7-4

Ala., Mobile—Mobile County voted \$500,000 bonds; erect suburban high school, 4-classroom addition to Spring Hill school, improvements to Prichard and other schools; W. C. Griggs, Supt. of Schools. 6-13

Ark., Little Rock—Philander Smith College, G. C. Taylor, Dean, negotiating for site, 10th and Izard Sts., for \$125,000 administration building. 12-27-28

Ark., Ratcliff—Ratcliff School Dist. plans \$12,000 brick school.

Ark., Strong—Strong Special School Dist. No. 83 receives bids July 30 for \$45,000, 2-story and basement, 80x150 ft., brick, 15-classroom and auditorium school; built-up roof, wood floors; Kolben, Hunter & Boyd, Archts., Armstrong Bldg., El Dorado. 7-18

D. C., Washington—Georgetown University, Rev. Dr. D. W. Coleman Melville, Pres., having preliminary plans prepared by E. G. Perrot, 1211 Arch St., Philadelphia, and 130 W. 42nd St., New York, for \$500,000, 4-story, brick dormitory, 35th St. and Reservoir Road, N. W.

Ga., La Fayette—Chattanooga Valley Consolidated School Dist., J. H. Hayes, Chmn., receives bids Aug. 5 for addition to school; brick, comp. roof, hardwood and cement floors; Lockwood & Poundstone, Archts.; Edw. F. Billie, Asso. Archt., both 101 Marietta Bldg., Atlanta.

Ga., Macon—Bibbs County Bd. of Education, Walter P. Jones, Supt., considering erecting \$145,000 Sr. High School for girls; 18 rooms, gymnasium, auditorium and laboratories; selected Dennis & Dennis to prepare plans for \$20,000, brick and frame addition to Alexander III School in North Highlands.

Ga., Rockmart—School Bd. ready for bids about July 30 for \$40,000, 1-story and basement, brick and frame, 9-classroom and auditorium school; comp. shingle roof, wood floors; Robert & Co., Archts.-Engrs., Bona Allen Bldg., Atlanta.

Ga., Thomaston—B. F. Goodrich Co., Akron, Ohio, soon let contract for 3 schools at Martha Mills near Thomaston; two, 1 story and basement, 209x53 ft., frame; other 2 stories and basement, 115x54 ft., brick and frame; Robert & Co., Engrs., Bona Allen Bldg., Atlanta; Batson-Cook Construction Co., West Point, and Butts Lumber Co., Thomaston, estimating.

La., Atlanta—School Bd. erect brick high school; \$50,000 bonds voted. 6-6

La., Belcher—Caddo Parish School Bd., Shreveport, erect \$10,000 brick addition to school; Edw. F. Neild, Archt., City Bk. Bldg., Shreveport.

La., DeRidder—Beauregard Parish School Bd., erect 2 schools; Asmus, Clark & McCook, Archts., Frank Bldg., Lake Charles; bids in.

La., Zwolle—Sabine Parish School Bd., Many, having plans prepared by J. W. Smith & Associates, Ouachita Natl. Bk. Bldg., Monroe, for 2-story, brick and stone trim school and frame domestic science cottage; \$38,000; comp. built-up roof.

Md., Baltimore—Public Improvement Comm., Ralph C. Sharretts, Sec., purchased old Colonial Hospital, N. Mount St., as site for negro elementary school; Taylor & Fisher, Archts., Union Trust Bldg.

Md., College Park—Alpha Omicron Pi Sorority, University of Maryland, soon call for bids for \$40,000, 2½-story, brick building on College Ave.; Wm. I. Deming, Archt., 808 17th St., N. W., Washington, D. C.

Md., Woodstock—Woodstock College, Father F. McCormick, Pres., soon call for bids \$200,000, 2-story, granite library building; H. I. Kavanaugh, Archt., 913 N. Calvert St., Baltimore.

Miss., Belzoni—Humphreys County Bd. of Supervisors, A. R. Hutchens, Clk., receives bids Aug. 5 for 2 houses on Section 16, Township 15; plans at office County Supt. of Education.

Miss., Cleveland—Cleveland Consolidated School Dist., J. C. Roberts, Pres., School Bd., selected Hull & Malvaney, Merchants Bk. & Trust Co., Jackson, for \$50,000, 1-story, rein. conc., brick, stone trim, 12-classroom high school. 7-18

Miss., Orange Lake—Jackson County School Bd., W. M. Alexander, Supt., Pascagoula, soon ready for bids for \$20,000, 1-story, rein. conc., brick, stone trim, 6-classroom and auditorium school; built-up comp. roof; Shaw & Woleben, Archts., Gulfport. 6-13

Miss., Satartia—Yazoo County Bd. of Education, H. L. Clark, Supt., Yazoo City, having plans prepared by J. M. Spain, Millsaps Bldg., Jackson, for \$40,000, 1-story, rein. conc., brick, stone trim school; built-up comp. roof. 5-16

Mo., Liberty—William Jewell College, Dr. John F. Herget, Pres., has been granted permission to proceed with plans to raise \$500,000 endowment fund to provide \$250,000 for education department; also \$250,000 for buildings and improvements to include \$145,000 gymnasium, \$20,000 pipe organ in chapel, \$20,000 conc. stadium, \$25,000 astronomical observatory; \$30,000 improvements to existing buildings and \$10,000 for other campus improvements. Incorrectly noted at Mo., Mexico. 7-4

Mo., Marceline—Bd. of Education erect high school, auditorium and gymnasium; also make repairs to present buildings; \$90,000 bonds voted. 7-4

Mo., St. Louis—Bd. of Education, R. M. Milligan, Commr., has low bid at \$17,788 from Wm. MacDonald Construction Co., Syndicate Trust Bldg., for 1-story brick auto mechanics shop at Cleveland High School. 6-20

N. C., Durham—North Carolina College for Negroes, James E. Sherwood, Pres., erect 3-story and basement, 125 x 44 ft., brick, fireproof dormitory to accommodate 100 girls; Atwood & Nash, Inc., Archt.-Engr., Chapel Hill; bids in.

N. C., Shelby—Shelby Special School Dist. votes July 30 on \$58,000 bonds.

N. C., Statesville—Iredell County Bd. of Education, Miss Celeste Henkel, Supt., erect school at Central ownership and Union Grove near Statesville; Percy Bloxam, Archt., Wallace Bldg., Salisbury; bids in.

Okla., Marshall—City plans vote soon on \$35,000 school bonds.

Okla., Purcell—Bd. of Education, J. H. Wells, Clk., rejected bids for 1 and 2 story stone and conc. school and soon call for new bids; Hawk & Parr, Archts., First Natl. Bk. Bldg., Oklahoma City.

S. C., Greenville—Bd. of School Trustees, Col. E. M. Blythe, Chmn., having plans prepared by J. E. Sirrine & Co. for addition to high school on Westfield St. and 8-classroom and auditorium grammar school on John St.; brick and frame, comp. roofs, stone trim, hardwood and tile floors. 6-20

S. C., Spartanburg—Textile Industrial Institute, R. B. Burgess, Pres., having plans prepared by Carlisle & Freeman, 106½ Kennedy Place, for \$30,000, 2-story, brick and conc. administration building. 6-27

Tenn., Brownsville—School Bd., C. W. Anderson, Supt., having plans prepared by Anker F. Hansen, Shrine Bldg., Memphis, for \$65,000, 2-story and basement, brick, 16-classroom school. 7-4

Tenn., Columbia—School Bd. let contract to P. L. Robinson for school at Leftwich Bridge.

Tenn., Memphis—City voted \$1,350,000 bonds for building program; W. J. Prescott, Pres., Bd. of Education. 6-6

Tex., Angleton—Angleton Ind. School Dist. E. E. Delaney, Sec., soon ready for bids for \$85,000, 2-story, brick and conc., semi-fireproof high school; Giesecke & Harris, Archts., Second Natl. Bk. Bldg., Houston, and Norwood Bldg., Austin. 6-27

Tex., Austin—Bd. of Education, E. A. Merchison, Pres., receives bids Aug. 5 for \$55,000, 2-story, 134 x 184 ft., brick and conc. Jr. High School, Leona St. and Washington Ave.; cement and wood floors, comp. roof, steam heat; plans from Roy L. Thomas, Archt., Littlefield Bldg. 7-11

Tex., Devine—Devine Ind. School Dist. Trustees have low bid at \$23,795 from Newman Bros., Kenedy, to remodel and erect addition to 192 x 50 ft., brick and conc. high and grade school; Will N. Noonan Co., Archts., Builders Exchange Bldg., San Antonio. 7-11

Tex., San Antonio—City voted \$3,700,000 school bonds for building program; Phelps & Dewees, Gunter Bldg., School Bd. Archts.; soon select architects for separate buildings; J. G. Hornberg, Pres., School Bd. 7-4

Tex., Era—School Bd. erect \$14,000, 6-classroom, brick school; Voelker & Dixon, Archts., Perkins-Snyder Bldg., Wichita Falls.

Tex., Grosvener—Grosvener School Dist. voted \$20,000 bonds.

Tex., Gruver—Bd. of Education, W. E. Maupin, ready for bids about Aug. 17 for \$75,000, 1-story, rein. conc., brick and stone, 12-classroom and gymnasium high school; Will H. Lightfoot and Rabey Funk, Archts., Johnson Bldg., Amarillo.

Tex., Houston—Houston Ind. School Dist. Bd. of Education, H. L. Mill, Bus. Mgr., 1600 Washington Ave., receives bids July 26 for remodeling Fullerton, Cage and Park Place elementary schools; plans from H. D. Payne, Archt., Kirby Bldg.

Tex., Fluvanna—Fluvanna Consolidated School Dist. Trustees erect high school and gymnasium; \$50,000 bond voted. 5-30

Tex., Quanah—School Bd. having plans prepared by Berry & Hatch, Oliver-Bakke Bldg., Amarillo, for \$40,000 high school; same architects preparing plans for \$30,000 high school at Truheart.

Tex., Navasota—Navasota Ind. School Dist., E. G. Youens, Sec., receives bids July 29 (extended date) for 2-story, 85 x 150 ft., brick, rein. conc., steel, stone trim, semi-fireproof, 12-classroom and gymnasium high school, and remodeling grammar school; \$130,000; plans from Giesecke & Harris, Second Natl. Bk. Bldg., Houston, and Norwood Bldg., Austin. 7-11

Tex., Snyder—Bd. of Education erect high school and gymnasium.

Tex., Springtown—Town votes soon on \$10,000 school bonds.

Va., Danville—Hughes Memorial School, L. D. Handy, Supt., reported considering erecting additional units advises all work deferred for present. 7-18

Va., Montvale—Bedford County School Bd., Bedford, having plans prepared by C. H. Hinnant, Lynchburg, for high school.

Va., Richmond—University of Richmond, Dr. F. W. Boatwright, Pres., receives bids Sept. 4 for \$160,000 physics building; Chas. M. Robinson, Inc., Archt., Post-Dispatch Bldg. 7-18

Va., Richmond—Tuckahoe School Dist., Henrico County, voted \$150,000 bonds; Westhampton High School, \$87,000; building and land for Ridge School, \$45,000; septic tank, \$8000; annex and remodeling Quinceasin colored school, \$10,000.

Va., Sylvan—Carroll County School Bd., L. E. Lindsay, Clk., receives bids Aug. 5 for 1-story brick high school; maple floors.

W. Va., Chattaroy—Lee Dist. Bd. of Education, L. V. Chapman, Sec., erect 1-story, 4-classroom school at Landstreet; also 2-story, 6-classroom school at Sprigg; both brick and tile, hot air heat; H. J. Brook, Engr., Box 1121, Williamson; bids in.

Stores

Fla., Bradenton—Charles Hull Ewing & Co., G. C. Strieder, Mgr., 100 N. La Salle St., Chicago, soon call for bids for 2-story, 50x140-ft., brick and stucco store, Manatee Ave. and 9th St.; Montgomery Ward & Co., Lessee, Chicago.

Fla., Jacksonville—Bernard's Stores, Inc., B. M. Lighton, V.-P., New York, remodel Lady Jane Shoppe, 55 W. Bay St., and Lucille Shop, 218 Main St.

Fla., Miami—Nunnally Co., 154 E. Flagler St., soon ready for bids for addition and alterations to store; George Bruce, Archt., Bank of Biscayne Bldg.

Md., Baltimore—Hyman J. Margolis, 3821 Garrison Blvd., has permit for two 1-story, 50x50-ft. brick buildings, 3821 Garrison Blvd.; \$10,000; tin roofs, steam heat; Frederick E. Beall, Archt., 306 St. Paul St.

Mo., St. Louis—Bialock Dry Goods Co., care Wedemeyer & Nelson, Archts., Wainwright Bldg., soon ready for bids for 2-story and basement, 119x44-ft. brick store and apartment, W. Florissant Ave. and Trush St.; comp. roof, hardwood and terrazzo floors.

N. C., Charlotte—The Associated Investment Co. having plans prepared by M. R. Marsh, Builders Bldg., for remodeling 8-story Investment Bldg., S. Tryon St., for furniture store to be leased to Serchi Brothers, 114 S. Gay St., Knoxville, Tenn.; \$30,000, 2 elevators. 7-11

Okla., Oklahoma City—Sneed Furniture Co. has low bid from L. A. Santee, 1901 W. Eighth St., for \$30,000, 2-story, brick and steel store and office building; Thos. L. Sorey, Archt., Braniff Bldg. 1-31

Okla., Oklahoma City—Midwest Ballroom Circuit, W. H. Willis, Tulsa, soon let contract for \$200,000, 1-story, 140x150-ft. com-

bination ballroom and store building, 4th St. and Western Ave.; 8 stories; similar structures will be built in Dallas, Houston and San Antonio, Tex.

S. C., Columbia—Gross Millinery Co., Inc., Trenton, N. J., plans store, 1610 Main St.

Tenn., Fountain City, Knoxville — W. C. Cooper, 2200 Lawson St., erect 2-story, 38x60-ft. brick store and office building.

Tex., Austin—J. C. Penney Co., R. E. Cain, Local Mgr., erect \$60,000, 2-story brick and basement store, 513-15 Congress Ave.

Tex., Beaumont—M. F. Yount, of Yount-Lee Oil Co., San Jacinto Life Bldg., has permit for \$75,000, 1-story, Spanish type, terra cotta building, Calder and Mariposa Sts.

Tex., Dallas—Woolf Bros., 1022 Walnut St., erect store; Alonzo H. Gentry, Archt., March Bldg., Kansas City, Mo.

Tex., Port Arthur—Fred Miller, 530 Austin Ave., soon let contract for \$15,000, 1½-story, 36x88 ft., Spanish tile store; Livesay & Wiedemann, Archts., San Jacinto Life Bldg., Beaumont.

Tex., San Antonio—Alfred A. Gianatta, 1413 N. Laredo St., has permit for \$10,000 store, 1401-9 N. Laredo St.

W. Va., Charleston—F. W. Woolworth Co., New York, has permit for addition and alterations to store, 201-5 Charleston St.; \$18,500.

W. Va., Charleston—P. Biagi, 901 Bigley

Ave., erect store and apartment, Bigley Ave. and Glen St.; \$13,500.

Theaters

Mo., Trenton—Reuben Josephson, 5704 Paseo, Kansas City, reported, erect \$100,000 theatre.

Tex., Abilene—H. O. Wooten has low bid at \$83,500 from R. E. McKee, 1916 Texas St., El Paso, for 4-story theatre. See Buildings Proposed—Hotels and Apartments. 7-4

Warehouses

Ga., Atlanta—Mueller Co., Decatur, Ill., erect \$100,000, 1 and 2-story, 119x114 ft., brick and rein. conc., warehouse and office building, Mangum and Nelson Sts.; Indiana or Alabama limestone trim, cast stone and granite work, built-up comp. roof; McDonald & Co., Archts.-Engrs., Southeastern Trust Bldg.; bids in. 6-13

Mo., Kansas City—T. Green Grocer Co., Santa Fe and St. Louis Ave., reported, erect \$150,000, 6-story and basement warehouse.

Tenn., Knoxville—H. T. Hackney Co. has permit for \$10,000, 1-story addition to Hackney, Kearns & Lackey Warehouse, 215 N. Broadway.

Tex., El Paso — W. W. Thornton, 2831 Nashville, St., has permit to erect warehouse and remodel present building, 160-62 N. Piedras St.; \$18,000.

BUILDING CONTRACTS AWARDED

Association and Fraternal

Tex., Beaumont — Phoenix Furniture Co. has contract at \$6946 for furniture for \$400,000 Y. M. C. A.; Ryder Furniture & Carpet Co., 135 Pearl St., furniture at \$4339, draperies, \$2506; lockers, Wessendorff, Nelms & Co., 317 Preston St., Houston, \$1997; Tisdale, Stone & Pinson, Archts., Ind. Life Bldg., Nashville, Tenn., and Goodhue Bldg., Beaumont, Tex.; Christy-Dolph Construction Co., Contr., Goodhue Bldg., Beaumont; Archts. drawing plans for \$10,000 athletic field. 2-14

Tex., Sanderson—Ancient Free and Accepted Masons let contract for \$20,000 temple to C. M. Breeding, Sanderson; conc., common and face brick, cast stone, struct. steel; Page Bros., Archts., Austin Natl. Bk Bldg., Austin.

Bank and Office

Ark., Jonesboro—Judge Chas. D. Frierson let contract to Burton & Ballew for \$25,000 office bldg.; terra cotta, 2 stories, 30x90 ft.; E. J. Wolpert, Archt. 5-9

D. C., Washington — Following sub-contracts let on 11-story and basement addition to Woodward Bldg., for which excavation is nearly completed: Rein. steel, Roslyn Steel & Cement Co., 3031 K St., N. W.; brick work, Harwood & Langley, 3211 Idaho Ave., N. W.; plumbing, Geo. W. Hanes, 1219 I St., N. W.; heating, Jos. E. Heffron, 200 Twelfth St., S. W.; elect. work, Biggs & Kirchner, 713 Sixth St., N. W.; excavating, M. Cain Co., 13 Sixth St., N. E.; orna. iron, P. S. Gleichner, 1214 D St., N. W.; steel erection, McDonald Steel Erection Co., 356 L St., S. W., all Washington; orna. terra cotta, Atlantic Terra Cotta Co., 19 W. 44th St.; kalamain windows, Empire Fireproof Door Co., Southern Blvd. and 145th St., both New York; double hung metal windows, Voightman Metal Window Corp., Kalamazoo, Mich.; kalamain doors, Philip Manufacturing Co., Easthampton, Mass.; exterior marble, Vermont Marble Co., Proctor, Vt.; millwork, Eisinger Mill & Lumber Co., Bethesda, Md.; structure struct. steel and brick, 31x131 ft., magnesite comp. floors, conc. foundation, slag roof; Geo. N. Ray, Archt., 1223 Connecticut Ave., N. W.; Thos. W. Marshall, Engr., 1341 Connecticut Ave., N. W.; Chas. H. Thompson Co., Contr., 1608 K St., N. W., all Washington. 5-9

Fla., Miami Beach—Thomson & McKinnon, First Natl. Bk. Bldg., Miami, erect \$150,000 branch bldg., Pancoast Circle; Italian Tuscan design, 2 stories, 100x75 ft.; 8 apartments, club dining room and kitchen on second floor; L. M. Barrett, Archt.; Tropical Homes Co., Contr.

Miss., Jackson — Additional sub-contracts let on \$750,000 Merchants Bank & Trust Co. bank and office bldg.; Misc. and orna. iron, Birmingham Ornamental Iron Co., 417 W. Pinson St.; plastering, D. W. Epperly Plastering Co., 916 N. 6th Ave., both Birm-

ington, Ala.; brick work, Bush Building Co., 8th & H St.; setting cut stone, Nashville Stone Setting Co., 4th & 1st Bank Bldg., both Nashville, Tenn.; mail chute equipment, Cutler Mail Chute Co., Rochester, N. Y.; glass and glazing, Capital Paint & Glass Co., S. State St.; millwork, Enoch Lumber & Manufacturing Co., S. State St.; painting, J. P. Permenter Paint Co.; roofing and sheet metal work, J. C. Thomas Co., 440 S. Farish St., all Jackson; granite, Cold Spring Granite Co., Cold Spring, Minn.; modeling cut stone and granite, Fort Worth Art Stone & Staff Co., Fort Worth, Tex.; interior marble, Gray Knox Marble Co., L. & N. Ry. Bldg., Knoxville, Tenn.; cut stone, Monon Stone Co., Bloomington, Ind.; stack lining, F. L. Snyder Co., 351 N. Cleveland St., Memphis, Tenn.; revolving door, Van Kannel Revolving Door Co., 250 W. 54th St., New York; Wyatt C. Hedrick, Inc., Archt., First Natl. Bk. Bldg., Fort Worth; Foster & Creighton Co., Contr., Protective Life Bldg., Birmingham, and Fourth & First Bldg., Nashville. 7-18

Miss. Meridian — National Plastering Co., M-W Bldg., has plastering contract for \$750,000 to 1,000,000 Threefoot Bldg. for Threefoot Realty Co.; millwork, Acme Building Supply Co., Eighth Ave. and A St.; painting, R. O. Dodson, all Meridian; heating and plumbing, Alonzo B. Hayden, Pass Christian Miss. (contract lately incorrectly reported); Claude H. Lindsley, Archt., Lamar Life Bldg., Jackson; Frank Fort, Asso. Archt., Meridian; Garber & Lewis, Contrs., Medical Bldg., Jackson. 7-4

Mo., St. Louis—Superior Construction Co., 314 N. Broadway, alter 11-story office bldg., same address; \$20,000; G. D. Barnett, Inc., Archt., Synd. Tr. Bldg.

Mo., St. Louis—Missouri Pacific R. R. Co., 1228 Olive St., has permit to alter office and bank bldg., same address; \$79,000; E. M. Tucker, Archt., 1228 Olive; Humes-Deal Binkers, Contrs., Arcade Bldg.

N. C., Hickory—Dr. H. C. Menzies erect \$25,000 office bldg., 13th St. and 12th Ave.; red face brick, 2 stories and basement, 35x86 ft., steam heat; 23 offices; Q. E. Herman, Archt.; Luther L. Moss, Contr.

Okl., Mangum—J. W. Lovell let contract for \$50,000 office bldg. to McMillin & Shelton, Enid; brick, 3 stories; Butler Co., Archt., Insurance Bldg., Oklahoma City. 7-18

Tex., Dallas—Chamber of Commerce let contract to W. H. King, Const. Indus. Bldg., for additional story to 5-story bldg., Commerce and Martin Sts.; \$12,500, brick.

Tex., Turkey—Farmers & Merchants State Bank placing material on ground for bldg., Main and Third Sts.; new fixtures.

Churches

Ark., Pea Ridge—Baptist Church erect \$10,000 to \$12,000 bldg.; brick; A. O. Clark, Archt.; Fred Humphrey, Contr., both Rogers.

Ark.-Tex., Texarkana—First Congregational Church erecting \$20,000 annex.

Ga., Atlanta—West End Baptist Church, 572 Lee St., S. W., let contract at \$12,145 to Capitol Construction Co., McGlawn-Bowen Bldg., to remodel and enlarge church; brick, comp. roof, steam heat.

Md., Baltimore—Twenty-fifth St. Christian Church, E. B. Smith, Pres., Bd. of Trustees, 2614 N. Calvert St., let contract to M. P. Gonnens, 3810 Hillsdale Rd., for \$40,000 bldg., 4903 York Rd.; stone, 1 story. 5-2

Md., Baltimore—Tifares Israel Congregation erect \$10,000 stone and brick addition, 1705-07 N. Smallwood St.; 1 story, 42x34 ft., slag roof; Stanislaus Russell, Archt., 11 E. Lexington St.; Louis Geldon, Contr.

Miss., Canton—Mount Zion Baptist Church let contract at \$20,725 to Lundberg & Hays for brick veneer bldg.; 1 and 2 stories, 71 x 94 ft.; Raymond B. Spencer, Archt., Fidelity Bk. Bldg., Memphis, Tenn. 6-12

Mo., Jennings—Jennings Union Church has low bid at \$38,960 from L. J. Graham, Arthur Ochs, 5435 Janet Ave., for bldg., Mary and Cozens Sts.; L. J. Graham, Archt., 4885 Natural Bridge Ave.

Mo., St. Louis—Christ Church Cathedral, Very Rev. Wm. Scarlett, Dean, 1210 Locust St., let contract to R. Guastavino Co., 225 W. 34th St., New York, to alter interior of old bldg.; Jamieson & Spear, Archts., Arcade Bldg.; St. Louis; Ralph Adams Cram, Const. Archt., care Cram & Ferguson, 248 Boylston St., Boston, Mass. 7-4

N. C., Forest City — Alexander Baptist Church, Highway No. 207, Alexander Mills, Rev. C. C. Matheny, Pastor, erect \$14,000 bldg. by day labor; brick veneer over tile, 3 stories, 56x86 ft., yellow pine floors, cement foundation, comp. roof; furnishings, equipment, etc., \$6000; plans by Sunday School Bd., Southern Baptist Convention, Nashville, Tenn.; excavation completed. See Want Section—Building Material and Equipment. 7-18

Tex., Amarillo—Hebrew Congregation, Sid Braunig, Pres., let contract to S. F. Pelton, 1606 Monroe St., for synagogue; hollow tile and brick, 75x40 ft., 2 stories; J. Roy Smith, Archt., Blackburn Bldg. 7-4

Va., Roanoke — Raleigh Court Methodist Church excavating for \$34,000 Sunday school; gray brick, 3 stories; Frye & Stone, Archts., MacBain Bldg.; J. F. Barbour & Son, Contrs., Columbia Natl. Bk. Bldg.

City and County

Ark., Morrilton—Conway County Bd. of Commrs., T. J. Moore, Judge, let contract at \$97,000 to John P. Jones & Co., Hot Springs National Park, Ark., and Memphis, Tenn., for courthouse; plumbing, John Patton & Son, Morrilton; brick, terra cotta trim, fireproof, Batesville stone interior, 4 stories with jail on top floor; Frank W. Gibb & Co., Archts., Gazette Bldg., Little Rock. 6-27

Fla., Miami—City, Welton A. Snow, City Mgr., reconstruct stadium N. W. Seventh Ave. and 28th St.; Frank J. Bruen, Vice-Pres., Madison Square Garden Corp., and Lionel Levy, archt. for Madison Square corp., to supervise constr.; tentative plans provide for about 25,000 capacity. 7-11

Mo., Hayti — Pemiscot County Court, Caruthersville, let contract for \$10,000 home for poor, Highway No. 84, to J. A. Sutterfield. 6-18

Tex., Fort Worth—City, O. E. Carr, Mgr., erect \$15,000 fire station, Berry St. and University Drive; face and common brick; Manuel Ervin, Archt., Dan Waggoner Bldg.; L. C. Naples, Contr., 3420 Avenue N.

Tex., San Antonio—Snead & Co., 96 Pine St., Jersey City, N. J., has contract at \$30,223 for steel stacks for main library; Herbert S. Green, Archt., Natl. Bk. Bldg.; W. E. Simpson & Co., Const. Engrs., Milam Bldg.; Kroeger-Brooks Construction Co., Contr., Frost Bldg. 4-25

Dwellings

Ala., Birmingham—D. M. Corley, 15 N. Fifth St., S. W., erect stone veneer residence, Mayfair; 2 stories, comp. roof, furnace heat; Turner & Slater, Archts., Martin Bldg.; G. T. Burrows, Contr., Protective Life Bldg.

Ala., Montgomery—J. M. Harrison, First Natl. Bk. Bldg., erect 2 dwellings, Lassiter St.; brick veneer, 1 story, comp. roofs; \$12,000; Bogacki Lumber Co., N. McDonogh St., Contr.

Ark., Marshall—C. J. Owens erect brick veneer residence; 1 story, oak and pine floors; owner builds.

D. C., Washington—C. W. Wright, care A. H. Sonneman, Archt., 2400 Sixteenth St., N. W., erect \$40,000 Italian Renaissance type residence, Kenwood; hollow tile, 2 stories; Kennedy Chamberlain Development Co., Contr., 2400 Sixteenth St., N. W.

D. C., Washington—Waverly Taylor, Inc., 1435 K St., N. W., has permit for 11 brick and stone dwellings, 1539-59 Forty-fourth St., N. W.; 2 stories; \$115,000; owner builds.

D. C., Washington—W. C. & A. N. Miller, 1119 17th St., N. W., have permits 5 dwellings, 4851 Glenbrook Rd., N. W., 4811 Rockwood Pkwy., 4531 Lowell St., N. W., 2915 Foxhall Rd., N. W., and 2323 Porter St., N. W.; stone and brick, 2 and 2½ stories; \$90,000; owners build.

Fla., Miami Beach—Mrs. J. A. Allison erect \$12,000 residence and garage, Chase Ave.; 2 stories, 51x31 ft., 2-car garage and servants' quarters, wood sash and floors, thatched roof; Wm. S. Green, Contr., 1107 Fifth St., Miami Beach.

Fla., Miami Beach—Gilbert-Ralston & Harwood, Inc., 610 Lincoln Rd., erect dwelling and garage, Sheridan Ave. and 53rd St.; Weed & Virrick, Archts., 2620 Biscayne Blvd.; C. K. Knight, Contr., 2460 N. W. 15th St., both Miami.

Fla., Miami Beach—Wm. S. Schott, 1670 Collins Ave., erect \$22,500 residence; 2 stories, 75x55 ft., garage and servants' quarters; C. H. Nellenbogen, Archt.; C. K. Clark, Contr., Bastion Bldg.

Fla., Miami Beach—Mrs. I. Grace Day erect \$25,000 residence and garage, 86th St.; Russell T. Pancoast, Archt., 1137 Lincoln Rd.; Louis Wessell, Contr., 635 Washington Ave.

Fla., Miami Beach—Henry S. Hubbell, 1818 Michigan Ave., erect 2-car garage, covered terrace and patio; \$10,000; Hubbell & Hubbell, Contrs., 1316 N. E. Second Ave., Miami.

Fla., Palm Beach—M. D. Cooper erect \$275,000 residence, S. Ocean Blvd.; Treanor & Fatio, Archts., Phipps Plaza; Watt & Sinclair, Inc., Contr. Murray Bldg., both West Palm Beach. 5-30

Fla., Palm Beach—Maurice Fatio erect 2 dwellings, S. Ocean Blvd. near Van Bellarin, and Jungle Rd., Jungle Point; \$94,000; Treanor & Fatio, Archts., Phipps Plaza, West Palm Beach; Harrison Construction Co., 500 N. E. 45th St., contractor for former, which is 74x102 ft., 2 stories, wood and tile floors, conc. foundation, tile roof. 7-18

Fla., West Palm Beach—St. Edwards R. C. Church let contract to Arnold Construction Co. for \$45,000 rectory, N. Palm Beach and Park Aves.; Mortimer D. Metcalfe, Archt., Bedford & Atlantic Aves., Brooklyn, New York, and Post Office Bldg., Palm Beach. 6-20

Ga., Atlanta—Atlanta Realty & Construction Co., Healey Bldg., erect \$14,000 dwelling, 655 E. Pelham Rd., N. E.; brick veneer, 1 story; owner builds.

Ga., Atlanta—H. W. Nicholes Co., Brighton Rd., erect \$18,000 residence, Brookwood Hills; brick veneer, conc. footing, 2 stories and basement, hardwood and tile floors, comp. roof, steam heat; owner builds.

Ga., Atlanta—Minter-Melton Corp., South-eastern Tr. Co. Bldg., erect \$18,000 dwelling, Wakefield Drive, Brookwood Hills; brick veneer, 2 stories and basement, hardwood floors, tile baths, comp. roof, steam heat; owner builds.

Ga., Rockmart—Southern Manufacturing Co., Gadsden, Ala., and Central Sash and Door Co., Waterville Rd., Macon, Ga., have millwork contracts for 325 dwellings for Goodyear Tire & Rubber Co.; brick from Columbus Brick & Tile Co., Fifth St.; Empire Brick Co., both Columbus, Ga., Georgia-Carolina Brick Co., S. F. C. Bldg., and Merry Bros., Marion Bldg., both Augusta, Ga.; Robert & Co., Inc., Archts.-Engrs., Atlanta, Ga.; Batson-Cook Co., Inc., Contr., West Point, Ga. 5-30

Ga., Savannah—G. M. Hollis, care Texas Oil Co., started work on brick bungalow, Fifty-first St., Chatham Crescent.

Ga., Savannah—Chas. O. Voss, Contr., 211 E. 53rd St., started work on brick bungalow, 51st St., and one on 49th St.

Ga., Savannah—John McLaughlin, Isle of Hope, started work on brick bungalow, 49th St., Chatham Crescent; L. R. Weathers, Contr.

La., Monroe—C. C. Bell Manufacturing Co., West Monroe, erect \$10,000 office bldg.; brick, 2 stories; work started.

La., New Orleans—John Assel erect double raised residence, Alexander St. near Toulouse St.; Geo. J. Lupo, Contr., 4925 Tonti St.

La., New Orleans—T. O. Tugel, 7802 Spruce St., erect single brick veneer residence, Fontainebleau Drive near Vincennes Place; H. F. Hinrich & Son, Contrs., Q. & C. Bldg.

Mo., Baltimore—Cleveland R. Bealmer, Bldr., 16 E. Lexington St., erect 17 brick dwellings, 3640-54 Ellerslie and 701-17 Chest-

Md., Baltimore—Ernest M. Manger erect \$10,000 residence and garage, 103 Taplow Rd.; brick, 2 stories, 42x28.6 ft., slate roofs; J. Winthrop Wolcott, Archt., 324 N. Charles St.; C. W. Littleton & Son, Contrs., 4313 Liberty Heights Ave.

Md., Baltimore—Woodhaven Development Co., Woodhaven & Mt. Holly Sts., erect 10 brick dwellings and garages, 4045-63 Woodhaven Ave.; 2 stories, 19x31 ft., slate roofs, hot water heat; \$35,000; Geo. Wessel, Archt., 001 W. 40th St.; owner builds.

Md., Baltimore—Dubbeldie Realty Co., Gwyns Falls Pkwy. and Longwood St., erect 4 brick dwellings, 3607-13 Greenmount Ave.; 2 stories, 18x42 ft., Carey roofs, steam heat; owner builds.

Md., Baltimore—T. V. Morgan Co., Inc., 10 E. Fayette St., erect \$35,000 dwelling, Poplar Hills; stone, 2½ stories.

Md., Baltimore—Walter Duvall, care Fidelity & Casualty Co. of New York, Garrett Bldg., erect \$30,000 residence, Homeland; stone, 2½ stories; Edw. H. Glidden, Jr., Archt., American Bldg.

Md., Baltimore—Marle McEvoy, 402 Cathedral St., let contract to Clarence L. Jacobs for \$12,000 residence and garage, 5403 St. Albans Way; stone, 2 stories, 42.6x29.6 ft. and 19x21 ft. slate roofs, hot water heat; Cyril H. Hebrank, Archt., 3 E. Lexington St. 7-11

Md., Baltimore—Ward Park Development Co. erect 2 brick dwellings, 600-08 Luma St.; 2 stories, 16x30 ft. slag roofs, steam heat; \$15,000; Herbert C. Aiken, Archt., 2116 Maryland Ave.; owner builds.

Md., Baltimore—Thos. F. Mullan, Bldr., 3945 Greenmount Ave., plans number semi-detached dwellings, Old York Rd. and 39th St.; stone and stucco.

Md., Baltimore—Wm. I. Norris, 8 E. Lexington St., let contract to Fred Keller & Son, 77 E. Echodale Ave., for 2 brick dwellings and garages, 3043-45 Northern Pkwy.; 2 stories, 26x28 ft. and 20x20 ft., hot water heat; \$12,000; plans by owner. 7-4

Md., Baltimore—Benj. Kleiman, Wichita Ave. & Reisterstown Rd., erect 10 brick dwellings and garages, 2300-18 Anoka Ave.; 2 stories, 21x46 ft. and 19x19 ft., Carey roofs, hot water heat; \$30,000; P. T. Bond, Archt., 3600 Edna Rd.; owner builds.

Md., Baltimore—Robinson & Slagle, Inc., American Bldg., erect 6 brick dwellings and garages, 205-15 Ridgemoor Rd.; 3 stories, slate and Carey roofs, hot water heat; \$42,000; J. A. Ahlers, Archt., 529 N. Charles St.; owners build.

Md., Baltimore—Horace S. Wynn, Hamlyn Apts., erect \$10,000 residence, 208 Witherspoon Rd.; brick, 2 stories, 42x38 ft., slate roof; Lewis & Westenhaver, Archts., 20 E. Lexington St.; T. V. Morgan, Contr., 10 E. Fayette St.

Mo., St. Louis—Benclar Real Estate Co. erect 4 brick dwellings, 4055-57-61-65 Oleatha St.; 1½ stories, 24x40 ft., comp. shingle roofs, hot air heat; \$16,000; E. Meyer, Archt.-Contr., 311 Gravois St.

Mo., Webster Groves, St. Louis—Mrs. Alice Duck, 315 S. Gore St., erect \$10,000 Spanish type residence, 343 W. Jackson Rd.; stucco, 2 stories, 52x36 ft.; owner builds.

Mo., St. Louis—G. W. Northrup, 2052A Ann St., erect \$10,000 residence, 5524 Itaska St.; brick, 1 story and basement, 26x38 ft., wood roof, tile bath; C. S. Koenig, Archt., 2036 Russell Blvd.; J. H. Kossmann, Contr., 3884 Wyoming St.

Mo., St. Louis—A. Mayer, 4608 Gravois Ave., erect 2 brick dwellings, 5601-02 Neosho St.; 1 story and basement, 25x32 ft., hardwood floors, tile baths, comp. shingle roofs, hot air heat; \$10,000; work by sub-contract.

Mo., St. Louis—Helen Hartman, 5206 Neosho Ave., erect 2 brick dwellings, 4000-04 Loughborough Ave.; 2 stories and basement, 27x30 ft., tile baths, hardwood floors, comp. roofs, hot air heat; \$12,000; C. E. Stevens, Archt., 5417 S. Grand Blvd.; Art Bilt Construction Co., Contr., 5417 S. Grand Blvd.

Mo., St. Louis—H. B. Offenbach, 3911 Wilmington Ave., erect \$12,000 brick residence, 3961 S. Kingshighway Blvd.; 2 stories and basement, 27x39 ft., tile bath, hardwood floors, hot air or hot water heat; Adolph F. Stauder, Archt., 6032 S. Kingshighway; P. M. Will, Contr., 4226 Ellenwood Ave.

Mo., St. Louis—A. Klanker, 4550 Gravois St., erect 2 brick dwellings, 5200-04 Blow St.; 1½ stories and basement, 24x32 ft., tile baths, hardwood floors, comp. shingle roof, hot air heat; \$10,000; S. Leonard, Contr., 5622 Morganford St.

Mo., St. Louis—M. J. Steffan, 5301 S. Broadway, erect \$10,000 brick residence, 1138 Dover Place; 1 story and basement, 26x48 ft., hardwood floors, tile bath, asphalt shingle

roof, hot air heat; Schulte & Tarling, Archts., Grand-St. Louis Bldg.; Koch & Hauptfleisch, Contrs., 5535 Grace Ave.

Mo., Webster Groves, St. Louis—John Wm. Freudenberg, 108 S. Gore Ave., erect \$10,000 brick veneer residence, 525 S. Rock Hill Rd.; 2 stories and basement, 26x34 ft., hardwood floors, tile bath, comp. shingle roof, hot air heat; Joy Holmes, Inc., Contr., 515 Summit Ave.

Mo., Webster Groves, St. Louis—Geo. Bohl, 5344A Bancroft Ave., erect \$10,000 residence, 222 E. Pacific Ave.; frame, 2 stories and basement, 24x42 ft., hardwood floors, tile bath, comp. shingle roof, hot air heat; Parnell Quick, Contr., 240 W. Big Bend Blvd.

N. C., Charlotte—David J. Craig erect \$33,000 residence, 332 Ardsley Rd.; brick veneer, 17 rooms; W. H. Peeps, Archt., Latta Arcade; J. A. Gardner, Contr., 211½ N. Tryon St.

Okla., Oklahoma City—G. A. Nichols, Inc., 115 N. Harvey St., started work on dwellings, Nichols Hills; unit to have 40 dwellings; \$1,500,000; Phillip Resnyk, Archt., 140 W. 42nd St., New York; constr. by owner; also having plans drawn by another architect for additional group; Hare & Hare, Landscape Archts., Huntzinger Bldg., Kansas City, Mo.

Okla., Wewoka—V. L. Kiker started work on \$30,000 residence; Spanish type, fireproof, tile roof, 2-car garage with servants' quarters; B. Gaylord Nofstger, Archt.; John J. Harden, Inc., Contr., both Oklahoma City.

Tenn., Knoxville—T. D. Leiby, Contr., Holston Bk. Bldg., has permit for \$10,000 residence, Hillvale Ave.

Tenn., Jackson—Bond Wilkerson erect \$10,000 residence, Gran and Lambuth Sts.; brick, 2 stories and basement, 50x75 ft.; Luther Parham, Archt., 58½ N. Hays Ave.; Herbert Owen, Contr.

Tenn., Knoxville—W. Gardner Hoffman, 211 W. Cumberland Ave., completing excavation for \$18,000 residence, Hillvale Park; stone and brick veneer, 1 story and basement, 50x65 ft., oak floors, slate roof, conc. foundation; W. A. Rutherford, Archt.; H. C. Fonde & Son, Contrs.

Tenn., Memphis—J. A. Smith erect \$15,000 residence and garage, 349 Kendale St.; brick veneer, 8 rooms; S. Isenberg, Contr., 148 Union St.

Tenn., Memphis—R. W. Brewster, 1458 S. Gardens; brick veneer, 2 stories, tile roof, Willett St., \$15,000 residence, Chickasaw 2 tile baths, hot water heat; day labor.

Tenn., Memphis—Walter Chandler, Columbian Mutual Tower, having plans drawn by Geo. Mahan, Jr., Archt., Manhattan Bk. Bldg., for brick veneer residence, Chickasaw Gardens; 1 story, hardwood floors, tile bath, tile roof. 6-23

Tenn., Memphis—John Sneed Williams, 2263 Jefferson Ave., let contract to William & Johnson, Normal, for \$12,000 residence; brick, 2 stories and basement, 33x78 ft., oak floors, tile roof, tile baths, steam heat; Geo. Mahan, Jr., Archt., Manhattan Bk. Bldg. 7-4

Tenn., Memphis—Joe Culligan, 934 Linden Ave., let contract to Palmer Bros., Fidelity Bk. Bldg., for brick veneer residence; 1½ stories, hardwood floors, tile bath, comp. roof; J. J. Broadwell, Archt., 153 Monroe Ave. 7-18

Tenn., Memphis—Maury Humphreys, 23 S. McLean St., erect brick veneer residence, Fairfield sub-division; 1 story, 55x32 ft., tile bath, hardwood floors, comp. roof; Palmer Bros., Contrs., Fidelity Bk. Bldg.

Tex., Beaumont—Will Graham, 620 Pearl St., let contract to Tom J. Posey, 887 Corley St., for \$50,000 Spanish type residence, Calder Terrace; brick veneer; Russell Brown Co., Archt., 3104 Main St.; Houston. 7-4

Tex., Brackettville—Albert Balantyne let contract at \$10,493 to W. E. Tinnin, Del Rio, for Spanish type residence, frame, brick and tile, 1 story; Henry T. Phelps, Archt., Hicks Bldg., San Antonio. 7-18

Tex., Houston—Dr. C. D. Creviston, Medical Arts Bldg., started work on Spanish type residence, River Oaks; Chas. W. Oliver, Archt.; River Oaks Corp., contractor, both River Oaks Bldg.

ex., Ozona—Ira M. Carson let contract for \$25,000 Spanish type residence to C. E. Bareford & Sons; tile and stucco, 2 stories, 10 rooms; Leonard R. Mauldin, Archt., San Angelo. 5-23

Va., Norfolk—Following sub-contracts let on \$125,000 residence for L. Fredk. Bruce on which foundation is completed: Stone work, Consolvo & Overmyer, 22nd & Colley Ave.;

struct. steel and orna. iron, Hall-Hodges Co., Inc., Citizens Bk. Bldg.; brick work, Cahoon & Hudgins, Arcade Bldg.; roofing and sheet metal, Spann & Hill, 718 Granby St.; lumber and millwork, White Lumber Co., Church St. & N. & W. R. R.; plastering and stucco, E. Folliard, Law Bldg.; Francis Yates Johannes, Archt., 420 Lexington Ave., New York; Wickham C. Taylor, Suprg. Archt., Citizens Bk. Bldg.; S. B. Williamson, Contr., Law Bldg., both Norfolk. 5-2

Government and State

D. C., Washington—Hasbrouck Flooring Co., Long Island City, N. Y., has wood floor contract for \$17,000,000 bldg. for Department of Commerce; steel lockers, All-Steel Equipment Co., 338 N. Lawrence St., Philadelphia, Pa.; dumb waiters, Walter Brauns, 519 N. Charles St., Baltimore, Md.; telescopic hoist, Gillis & Geoghegan, 537 W. Broadway; wood block floors, Carter Blox-ond Flooring Co., 501 Fifth Ave., both New York; elect. work, Harry Alexander, Inc., 1800 E St., N. W., Washington; hauling and erecting steel, Karl W. Koch, Inc., 153 W. 52nd St., New York City; York & Sawyer, Archts., 100 E. 42nd St., New York; Consolidated Engineering Co., Inc., Contr., 20 E. Franklin St., Baltimore. 6-6

Ga., Fort Benning—William Durnall, Inc., 117 W. Main St., Lakeland, Fla., has plumbing and heating contract for additions to Ward C and connecting corridors and for nurses' quarters, Fort Benning; elect. work, Waker Electric & Plumbing Co., 111 12th St.; roofing and sheet metal, Owen McArdle, 1438 First Ave., both Columbus, Ga.; orna. and misc. iron, Price-Evans Foundry Corp., Chattanooga, Tenn.; rein. conc. constr., conc., comp. and oak floors, conc. foundations, Ludowiel or Hood roofs; \$125,000; H. B. Nelson Construction Co., Contr., S. F. C. Bldg., Augusta, Ga. 7-11

Hospitals, Sanitariums, Etc.

Ala., Birmingham—Norwood Hospital, Inc., 1601 N. 25th St., let contract to Moore & Wooley, 711 S. 27th St., for additional story to 2-story hospital; brick and conc., fireproof; Turner & Slater, Archts., Martin Bldg. 7-11

Ark., Russellville—St. Marys Hospital, Dr. R. L. Smith, laying foundation for \$12,000 addition; 18 rooms; Morris & Morris, Contrs.

D. C., Washington—Department of Interior, Jos. M. Dixon First Asst. Sec., let contract at \$740,000 to W. P. Rose Co., Goldsboro, N. C., for medical and surgical bldg., St. Elizabeth's Hospital, Anacostia, with connecting corridors, including roads, walks and drainage; move present 1-story contagious bldg. to new site; hollow tile, brick and cut stone, cast stone, marble work, floor and tile, terrazzo and linoleum floors, iron work, steel sash and stairs, tile, metal and built-up roofing roof ventilators, metal lath, metal weatherstrips, insect screens, elect. elevator, outside sewer, water, steam and elect. distribution system; plans by U. S. Veterans' Bureau, Arlington Bldg., elevators, A. B. See Elevator Co., Inc., 1343 H St., N. W. 6-27

La., New Orleans—Following sub-contracts let on 1,000,000 Hutchinson Memorial Medical Bldg. for Tulane University: Plumbing, heating, ventilating, refrigeration and entire mechanical equipment, Mayer Godchaux Co., Inc., 1331 St. Charles Ave.; rein. steel and Donovan windows, Truscon Steel Co., Canal Bk. Bldg.; struct. steel, Lukens Steel Co., Poland & Rocheblave Sts.; elect. work, Sullivan & Phillips Electrical Contracting Co., 518 Gravier St.; hardware, Wight & Co.; limestone, New Orleans Cut Stone Co., 2321 Callopie St.; Favrot & Livaudais, Ltd., Archts., Hibernia Bldg.; Geo. J. Glover Co., Inc., Contr., Whitney-Central Bldg. 6-20

Okla., Norman—Oklahoma Soldiers' Relief Comsn. let contract at \$77,500 to Bailey-Burns Construction Co., Norman, for 2 psychiatric units, State Hospital; brick, conc. floor slab, tile partitions, 1 story, 127x144 ft., conc. slab, terrazzo and tile floors, tile roof; furnishings, equipment, etc., \$10,000; Geo. Ernst V. Blumenauer, Archt.-Engr., Masonic Bldg., Enid. 7-11

Tenn., Jackson—Webb-Williamson Clinic, Dr. Chas. F. Webb, member, erect \$75,000 bldg.; brick, stone and conc., 3 stories; Hubert Owen, Contr.

W. Va., Huntington—Additional sub-contracts let on \$250,000 extension to Chesapeake & Ohio Rwy. Co. hospital: Rein. steel, Kallman Steel Co., Inc., Hearst Tower Bldg., Baltimore; limestone, Lexington Cut Stone Co., 608 E. Third St., Lexington, Ky.; granite, John B. Helfert, 3020 Norfolk St.; kalamain doors and trim, Earnest Bros., 805 E.

Franklin St.; misc. iron, Richmond Structural Steel Co., 17 & Dock Sts.; steel windows, David Lupton's Sons Co., Builders Exch. Bldg.; linoleum and rubber floors, W. Morton Northern Co., 109 E. Grace St., all Richmond, Va.; millwork, Huntington Sash, Door & Trim Co., 459 Camden Rd.; elect. work, L & G Electric Co., both Huntington; plans by office C. W. Johns, Ch. Engr., 1006 Park Ave., Richmond; John W. Cowper Co., Inc., Contr., State Planters Bk. Bldg., Richmond, and Buffalo, N. Y. 7-11

Hotels and Apartments

Ala., Birmingham—W. E. Hall, 502 N. 21st St., started work on \$32,000, 2-story, 36x87 ft., brick veneer apartment, North Highlands; Robt. G. Chapman, Archt., Bankers Bond Bldg.; owner builds.

Ala., Mobile—Malbis Hotel Co., \$1,000,000 capital, incorporated; Jason Malbis, owner of Malbis Bakery, Pres.; C. P. Tampary, Daphne, V.-P.; Daniel M. Haley, Chicago, Sec.; plans \$1,000,000 hotel, Royal and St. Francis Sts.; probably 20 stories.

Fla., Miami Beach—Wofford Hotel Co., 2400 Ocean Drive, erecting \$10,500 servants quarters; George Bruce, Archt., Bk. of Bay Biscayne Bldg.; day labor. 7-18

Ga., Atlanta—Henry Grady Hotel Co., 210 Peachtree Rd., N. W., having plans prepared by George Harwell Bond, Candler Bldg., for interior improvements; remodel basement for laundry; conc., brick, tile, millwork, painting; owner builds; day labor.

Ga., Thomasville—James Watt & Bros. have contract for heating and plumbing in \$100,000 apartment on Gordon Ave. for Gordon Ave. Co.; Joe M. Beutell, Contr.; Daniell & Beutell, Archts., Healey Bldg., Atlanta. 6-6

Miss., DeKalb—McCoy Hotel Co. let contract to Mosley & Gunn, Meridian, for 2-story, 60x100-ft., brick and rein. conc., 24-room hotel; first floor for office, dining room and kitchen; built-up comp. roof.

Mo., Kansas City—Linwood Building Co., Dr. D. M. Negro, Argyle Bldg., and Harry B. Goldberg, soon start work on 10-story, 54x140 ft. apartment hotel, Linwood Blvd. and Tracy Ave.; Walter A. Besecke, Archt., Huntzinger Bldg. 6-27

Mo., St. Louis—L. J. Wenneker, 1819 S. Newstead Ave., excavating for five 2-story and basement, 24x55-ft. brick apartments, 5637-55 Labadie Ave.; \$50,000, comp. roof, hardwood floors, hot air heat; owner, Archt.-Bldr.

Okla., Oklahoma City—Pierce Petroleum Corp., Edw. D. Levr, Pres., Pierce Bldg., St. Louis, and T. W. O'Donnell, Dist. Mgr., Oklahoma City, start work about Aug. 1 on \$350,000 brick building, initial unit of 5 structures for \$1,300,000 tourist hotel on 10-acre tract, Britton and Edmond roads on U. S. Highway No. 66; Colonial architecture; each unit will consist of 40 rooms.

Okla., Oklahoma City—L. P. Freeman, Contr., S. W. Natl. Bk. Bldg., started work on \$20,000, 2-story brick apartment on W. 26th St.; owner builds.

Tenn., Chattanooga—Stewart Construction Co., W. F. Stewart, Pres., Provident Bldg., soon start work on \$75,000, 3-story, stone and brick, semi-fireproof, 12-apartment on Missionary Ridge; terrazzo and tile floors, comp. roof.

Tex., Austin—Following sub-contracts awarded on Driskill Hotel Annex under construction for Driskill Hotel Co. for which L. H. Lacy Co., Burt Bldg., has general contract at \$265,648: Iron, steel and bronze, Southern Ornamental Iron Works, Republic Bk. Bldg.; plaster, H. C. Wilson, Inc., Construction Industries Bldg.; marble, Vermont Marble Co., 1513 Wall St.; hollow tile, Reliance Clay Products Co., Republic Bk. Bldg.; plate glass, Federal Glass & Paint Co., 2001 N. Lamar St.; electric, Electric Construction Corp., 209 S. Pearl St.; painting, Crabtree & Wilson; screens, Acme Screen Co., 915 S. Peak St., all Dallas; millwork and lumber, Calcasieu Lumber Co., 311 W. Second St.; face brick, Elgin-Butler Brick & Tile Co., 201 Congress St.; cement, Kuntz-Sternenberg Lumber Co., 601 E. Fifth St.; rein. steel, Tips Engine Works, 300 Crockett St.; roofing, sheet metal, skylights, J. O. Buass & Sons, 407 Lavaca St.; excavation, Joe Macken, 702 Rio Grande St., all Austin; tile, bathroom accessories, Wm. Cameron & Co., Inc., 622 Austin Ave.; artificial stone, Waco Art Stone Co., Peach Ave., both Waco; granite, Texas Pink Granite Co., Marble Falls; art glass, Baker & Baker, 2200 Mills St., El Paso; Trost & Trost, Archts., Two Republics Bldg., El Paso. 10-18-28

Tex., Lubbock—Following sub-contracts awarded on \$500,000, 12-story, 200-room Hilton Hotel, under construction for Hilton Hotel Co., 1933 Main St., Dallas, for which Robert E. McKee, Box 367, El Paso, has general contract: Misc. iron, Weaver Ornamental Iron Works, 1801 Carter St.; glass, Pittsburgh Plate Glass Co., Jackson and Kendall Sts.; millwork, Buehl Lumber & Manufacturing Co., 731 N. Hawkins St.; rein. steel, Southern States Steel Co., 503 S. Haskell St.; wiring, Electric Construction Corp.; Gyp tile plaster, U. S. Gypsum Co., Wilson Bldg.; steel sash, David Lupton's Sons Construction Co., 601 Mercantile Bk. Bldg.; elevator doors, Weaver Ornamental Iron Works; steel floor cores, Berger Manufacturing Co., Corinth and Pear Sts.; anchor slots, R. H. DeWees, Slaughter Bldg.; refrigeration, United Iron Works, Inc., Magnolia Bldg.; heating, Martyn Bros., Inc., 911 Camp St.; terrazzo, American & Venetian Marble Co., 412 S. St. Paul St., all Dallas; struc. steel, North Texas Iron & Steel Co., 1401 N. Adams St.; Voightman windows, Collinsville Manufacturing Co., 1003 E. Front St.; tile, Southland Tile & Mantel Co., 1706 Bighth Ave., all Fort Worth; excavation, Panhandle Construction Co.; lumber, Shelton Lumber Co., both Lubbock; granite, Cold Spring Granite Co., Cold Spring, Minn.; weatherstrips, J. A. Morrison, 1527 Britain St., Wichita Falls; elevator contract let; Anton F. Korn, Archt., Thomas Bldg., Dallas. 2-21

Miscellaneous

Fla., St. Petersburg—Bob Ely, operating Bob's Cafeteria in basement Snell Arcade and Bob's Spanish Gardens on Snell roof, let contract to R. E. Clarson, 3035 Harper Circle, N., for cafeteria, 4th St. and Second Ave.; work to start by Sept. 1; steel, stucco, cut stone and tile, Spanish architecture; Hadley & Norstrom, Archts., 356 Central Ave.

La., Marrero—H. G. DeFraitres, 304 Camp St., has contract for additions and alterations to Marrero Home; Weiss, Dreyfous & Seifert, Inc., Archts., Maison Blanche Bldg., both new Orleans.

Mo., Branson—M. B. Skagg, Santa Rosa, Cal., erect addition and remodel clubhouse on 4000-acre game park in southern part of Taney County.

Okla., Sand Springs—Library Bd., Mrs. Charles Page, Chmn., let contract at \$58,500 to W. I. Grimshaw Co., Kennedy Bldg., Tulsa, for \$75,000, 2-story library; Otis Floyd, Archt., Chicago. 6-20

Tex., Corpus Christi—H. H. Frier started work, day labor, on \$25,000 pleasure pier at Remington Lodge, Four Bluff; 1 story, hardwood floors; Hamon & Co., Archts., Medical Professional Bldg. 7-18

Tex., Dallas—Grande Lodge Co., M. M. Plowman, American Exch. Bk. Bldg., erect 60 bungalows, 2 apartments each, store, building, 65x125 ft. with garage in basement, oil station, recreation hall, swimming pool, laundry and office, Zang Blvd.; \$260,000; Watson & Co., Contrs., 1927 S. Akard St. 6-13

Railway Stations, Sheds, Etc.

Ala., Birmingham—Birmingham Southern R. R. Co., G. H. Ritchie, Ch. Engr., Ensley, let contract to E. C. Coston, Bessemer, for 1-story, 126x30x16 ft., brick and struc. steel freight station. 6-13

Schools

Ala., Berry—School Bd. soon start work on \$20,000, brick, 10-classroom school.

Ala., Livingston—Columbus Brick Co., Columbus, Miss., has contract for 1,000,000 brick for administration building, dormitory, heating plant and training school at Livingston Teachers College for which E. R. Maynard, 2318 Ensley Ave., Birmingham, has general contract at \$328,000; Warren, Knight & Davis, Archts., Protective Life Bldg., Birmingham. 7-18

Fla., Bonifay—Holmes County Bd. of Public Instruction let contract to C. E. Emmett for 6-classroom addition and remodeling school; \$15,000.

Fla., Carrabelle—Franklin County Bd. of Public Instruction, Apalachicola, let contract to H. H. Taylor, Blountstown, for \$36,000, 2-story, brick school; S. J. Welch, Archt., Pensacola.

Fla., Miami—Dade County Bd. of Public Instruction let contract at \$74,700 to Diegaard-McRae Co., Baldwin Bldg., Coral Gables, for 2-story, 160 x 90 ft., steel, brick and rein. conc., fireproof school, Miami Shores; Weed & Virrick, Archts., 2620 Biscayne Blvd. 7-11

La., Laplace—St. John the Baptist Parish School Bd., J. O. Montegut, Supt., Edgard, let contract at \$42,200 to Dominick Auzalone, Independence, for 2-story, rein. conc., brick, stone trim school; A. S. Montz, Archt., 740 Poydras St., New Orleans. 7-14

Md., Pikesville, Baltimore—Following sub-contracts awarded on \$500,000 administration building and Lyle Memorial Alumni Bldg. at McDonough School for Boys for which Consolidated Engineering Co., Inc., 20 E. Franklin St., Baltimore, has general contract: Cut stone, James O'Meara, Frisby & Belt Line R. R.; rein., struc., orna. and misc. iron, Dietrich Bros., 220 Pleasant St.; millwork, Heise & Bruns, 600 S. Caroline St.; glass, Swindell Bros., Bayard & Russell Sts.; plumbing and heating, Lloyd E. Mitchell, Inc., 915 E. Lombard St.; electric work, Bonnett Electrical Contracting Co., 210 N. Calvert St.; cement and drain tile, Fred Elenbrok, 2104 Frederick Ave.; glazed brick, Ed. L. Rieha, Lexington Bldg.; face brick, Carson-Stanwood Supply St., 508 St. Paul Pl.; slag roofing, sheet metal and damp proofing, Wm. F. Zeller Co., Inc., 613 W. Cross St.; masonry, Benjamin Faraone & Sons, 1036 N. Eden St.; excavation, Leo J. McCourt, 861 Greenmount Ave.; vault doors, York Safe & Lock Co., Wilkens Ave. & Catherine St.; all Baltimore; Wm. H. Emory, Archt., 18 E. Lexington St.; Smith & May, Asso. Archts., Calvert Bldg., both Baltimore. 7-11

Md., Towson—Baltimore County School Bd., S. D. Shoemaker, Pres., Court House, let contract to Tase-Norris Co., 903 Cathedral St., Baltimore, for \$30,000, 2-story, brick, 4-classroom addition to school at Colgate; Smith & May, Archts., Calvert Bldg., Baltimore. 7-11

Miss., Hattiesburg—American & Venetian Marble Co., 615 Julia St., New Orleans, La., has contract for terrazzo flooring in \$160,000 administration and auditorium building under construction at State Teachers College; Oden & Glenn, Gen. Contrs., Carter Bldg., Hattiesburg. 4-11

Miss., Newton—Newton School Trustees let contract at \$10,980 to W. M. Moore for 1-story, 125x90 ft., brick and frame school; Hull & Malvaney, Archts., Merchants Bk. Bldg., Jackson. 7-11

Miss., Oxford—American & Venetian Marble Co., 615 Julia St., New Orleans, La., has contract for terrazzo flooring in buildings at University of Mississippi for which Garber & Dickson, Jackson, have general contract at \$350,947; Frank P. Gates, Archt., Edwards Hotel Bldg., Jackson. 6-20

Miss., Poplarville—Pearl River College Trustees started work on remodeling buildings; Charles Rawles, Contr. 7-11

Miss., Senatobia—West Mississippi Junior College, Prof. P. W. Berry, let contract at \$14,700 to M. O. Gann for 2 stories and basement, 78x53 ft., brick building; Walker Nelson, Archt., Shrine Bldg., Memphis, Tenn. 7-4

Mo., Anderson—Bd. of Education, W. G. Tracey, Clk., let contract to Walter Kelley, Eldorado Springs, for \$50,000, 2-story, brick high school; Heckenlively & Mark, Archts., Landers Bldg., Springfield. 5-2

Mo., Columbia—University of Missouri, Dr. S. D. Brookes, Pres., let contract to Bethel Co., Granite City, Ill., for field house; Jamieson & Spearl, Archts., Arcade Bldg., St. Louis. 6-13

Mo., Maryville—School Bd. let contract to G. F. Construction Co., Exira, Iowa, for \$30,000 improvements to high school. 7-4

N. C., Hobgood—Halifax County Bd. of Education, Halifax, let contract to J. W. Stout & Co., Sanford, for high school auditorium and gymnasium. 7-11

N. C., Raleigh—Bd. of Managers, Samaritan Manor Industrial School for Girls let contract at \$24,100 to John W. Hudson, Tarboro, for dormitory; Linthicum & Linthicum, Archts., Professional Bldg., Raleigh. 7-11

Miss., Meadville—Woodrow Wilson Consolidated School Dist. Trustees let contract to C. C. Campbell & Sons for school. 7-11

N. C., Roxboro—Person County Bd. of Education let contract at \$22,142 to J. Bryan & Sons, Rogers Bldg., Raleigh, for brick school to replace burned structure; comp. roof. 7-4

Okla., Fort Sill, Lawton—Fort Sill Indian School started work on 25x40 ft. addition each to boys' and girls' dormitories. 7-4

Okla., Granite—Bd. of Education, C. C. Massey, Clk., let contract at \$12,285 to F. T. Thompson, Cordell, for gymnasium and school repairs; Fred Ford, Archt., Cordell. 7-4

Okla., Roosevelt—G. T. McNutt let contract at \$18,448 to C. H. Sikes, Chickasha, for 1-story, 125.8x110.8 ft. brick and frame

school; comp. roof, wood floors; E. H. Eads & Co., Archts., Chickasha. See Want Section—Building Material and Equipment. 7-11

Okla., Tulsa—Bd. of Education, Raymond Courtney, Pres., let contract at \$103,500 to Manhattan Construction Co., Court Arcade Bldg., for school in Red Fork; at \$69,750 to W. R. Grimshaw Co., Kennedy Bldg., for addition to Lowell School; at \$61,789 to Rucks-Brandt Construction Co., Mid-Continent Bldg., for Lombard School addition. 7-11

Tenn., Chattanooga—University of Chattanooga let contract to Hahn Construction Co., Chamberlain Bldg., for stadium additions; conc. and frame. 7-11

Tenn., Kingsport—Lifton & Buckles started excavation for foundation of E. B. Cox Wholesale Co.'s building on Commerce St.; 1 story, 50x130 ft., brick and steel; Piye Bros., Gen. Contrs. 7-11

Tenn., Maury City—School Bd. erect \$25,000 grammar and high school. 7-11

Tenn., Nashville—Davidson County Bd. of Education, W. C. Dodson, Supt., let contract to A. M. Watson, 4307 Nebraska Ave., for 1-story and basement, 53x92 ft. school; C. K. Colley & Co., Archts., Fourth and First Bank Bldg.; at \$23,485 to Critchlow & Yearwood, Murfreesboro, for 1-story and basement, 53x100 ft. school; both brick, conc. and stone; Geo. D. Waller, Archt., Independent Life Bldg. 7-4

Tenn., Spring City—Rhea County Bd. of Education, Dayton, let contract to Christmas & Murphy, Harrison, for \$75,000, 2-story and basement, rein. conc., brick, stone trim school; comp. roof, terrazzo and tile floors, steam heat; R. H. Hunt & Co., Archts., James Bldg., Chattanooga. 3-21

Tex., Dimmitt—Dimmitt Ind. School Dist. Trustees, B. D. Woodlee, Sec., let contract to W. G. Windsor, Oliver-Eagle Bldg., for \$100,000, 2-story, brick, stone and rein. conc. high school; heating and plumbing, W. H. Hayman, 308 Fillmore St.; electric work, Triangle Electric Co., 117 W. Seventh St.; Rittenberry & Carter, Archts., Fisk Medical & Professional Bldg., all Amarillo. 7-11

Tex., Devine—Devine Ind. School Dist. Trustees let contract at \$23,735 to Newman Bros., Kenedy, to remodel and erect addition to 192 x 50 ft., brick and conc., high and grade school; Will N. Noonan Co., Archt., Builders Exchange Bldg., San Antonio. 7-11

Tex., Humble—Following sub-contracts awarded on \$140,000 Junior Senior High School, C. W. Ennis, Gen. Contr., 700 Stuart St., Houston: Brick, Vandavere, Browne & Stoy, 2202 Polk St.; Acme Brick Co., Kirby Bldg., and Reliance Brick Co., West Bldg.; lumber, Herman Hale Lumber Co., 3000 McKinney St.; iron and steel, Houston Structural Steel Co., 3910 Washington St.; roof and sheet metal, J. A. Sharman, 1316 Spring St.; hardware, Peden Iron & Steel Co., 700 N. San Jacinto St.; bar joists, Berger Manufacturing Co., 1413 Fannin St.; cast stone, Pyramid Stone Co., 1107 National St.; building material, The Horton Co., 1701 Shepard St.; conc. gravel, Harden & Horton; 3201 McKinney St.; kalamein doors, Louis G. Hoster, First Natl. Bk. Bldg.; wainscot brick, W. L. Macatee & Sons, 103 Austin St.; caulking, Coastal Sales Agency, 3914 Main St.; painting, T. M. Neel, 803 Sledge St.; partitions, Vincent A. Tozzi, 1505 Live Oak St., all of Houston; millwork, Enoch's Lumber & Manufacturing Co., S. State St., Jackson, Miss.; Harry D. Payne, Archt., Kirby Bldg., Houston. 7-4

Tex., Laketon—Laketon Common School Dist. No. 4, Gray County, let contract at \$9500 to W. C. Scott, Miami, for 1-story, 60 x 40-ft., brick and tile school; comp. built-up roof, cement and oak floors; W. R. Kaufman, Archt., Pampa. 7-11

Tex., Texarkana—Sacred Heart Catholic Church let contract at \$48,520 to J. H. Riddick, Kennedy Bldg., Fort Smith, Ark., for parochial school; 2 stories, 102 ft. square, brick, stone trim; Witt, Siebert & Halsey, Archts. 7-11

Tex., Vidor—Vidor Consolidated School Dist. Trustee, L. Singleton, Chmn., let contract to C. F. Myers, American Natl. Bk. Bldg., Beaumont, for 2-story, brick, 12-room and auditorium high school; Livesay & Wiedemann, Archts., San Jacinto Life Bldg., Beaumont. 7-11

Va., Bedford—Bedford County School Bd., W. E. Fizer, Chmn., let contract to E. A. Overstreet for building for Bedford Training School. 5-16

Va., Richmond—Following sub-contracts awarded on West End High School under construction for which National Construction Co., Inc., Glenn Bldg., Atlanta, Ga., has general contract at \$713,122: Excavation, Hankins & Collins, 1410 W. Clay St.; conc., Ready Mixed Concrete Corp., 2014 Leigh St.;

masonry (except stone work), Duke, Carter & Page; cast stone, furnished by Economy Conc. Stone Co., and set by Theo. J. Cromer & Sons, all Richmond; millwork, Sitterding-Carneal-Davis Co., 1500 W. Moore St.; roof, Philip Carey & Co., 1719 Summit Ave.; heating, American Heating & Ventilating Co., Times Dispatch Bldg.; plaster, George Worden, Citizens Bldg., Louisville, Ky.; tile and terrazzo, A. M. Fornara & Co., Bona Allen Bldg.; marble and alberne work, Reeves Marble Co., Citizens & Southern Bldg.; electrical, Electro Construction Co., all three Atlanta, Ga.; painting and decorating, Anderson & Majors, Birmingham, Ala.; plumbing and vacuum cleaning system, Pickard & Co., Arcade Bldg., Asheville, N. C.; elevator contract let; Chas. M. bonison, Inc., Archt., Times-Dispatch Bldg., Richmond. 7-11

W. Va., Clarksburg—Coal Dist. School Bd. let contract to A. L. Shrum Co., 226 Grant St., for \$15,000, 6-classroom addition to school at Northview. 7-11

Stores

Ala., Montgomery—Atlantic Terra Cotta Co., 25 W. 44th St., New York, has contract for terra cotta for \$230,000, 2-story and basement store for S. H. Kress & Co., 114 Fifth Ave., New York, and 1910 Second St., N., Birmingham; G. A. Miller, Inc., Gen. Contr., Petteway Bldg., Tampa, Fla. 7-11

Ark., Little Rock—Mrs. Leah T. Rose and Mrs. C. L. Clise, owners of Thompson Bldg., Main St. and Capitol Ave., being remodeled, will raze structure and erect new building; probably 2 stories; \$50,000; McGregor & Pickett, Contrs., A. O. U. W. Bldg.; Garver & Morrow, Engrs., Donaghey Bldg.; H. Ray Burkes, Archt., Wallace Bldg. 5-30

D. C., Washington—Following sub-contracts awarded on 8-story store under construction at 1421 F St., N. W., for Julius Garfinckel & Co., 1226 F St., N. W., for which Chas. H. Tompkins Co., 1608 K St., N. W., has general contract: Electric work, Harry Alexander, Inc., Architects Bldg., Washington; sprinkler system, Automatic Sprinkler Corp., Maryland Life Bldg.; plumbing, heating and ventilating, Riggs-Distler Co., 216 N. Calvert St., both Baltimore; refrigeration, fur vault and air conditioning, York Ice Machinery Co., 42nd St. and Second Ave., Brooklyn, N. Y.; granite, Booth Bros. & Hurricane Isle Granite Co., 208 Broadway, New York; rein. steel, Taylor-Davis, Inc., 4250 Wissahickon Ave., Philadelphia; struc. steel, Lehigh Structural Steel Co., Allentown, Pa.; limestone, Shawnee Stone Co., Bloomington, Ind.; steel sash, Truscon Steel Co., Youngstown, Ohio; foundations, Spencer, White & Prentiss Co., Washington Blvd. Bldg., Detroit; Starrett & Van Vleck, Archts., 303 Seventh Ave., New York. 5-23

D. C., Washington—J. R. Harris, City Club Bldg., let contract to McCladney Construction Co., 4707 Kansas Ave., N. W., for addition and improvements to 4-story brick store, 1224 F St., N. W.; \$40,000; H. W. Cutler, Archt., 1800 E St., N. W. 7-11

Fla., Jacksonville—J. L. Ponder, 3380 Knight St., has permit for \$20,000 improvements to 2-story brick store, 37-39 W. Forsyth St., for Golden's Bottery. 7-11

Fla., Miami Beach—Wm. F. Bonsack, 1659 Alton Road, has contract to erect \$35,000, 2-story, rein. conc. and stucco Fisher building, Lincoln Road between Drexel & Penn. Aves.; 4 bedroom apartment above, 2 shops and 2 offices on first floor, restaurant in rear, tile and comp. roof, terrazzo and wood floors; Russell T. Pancoast, Archt., 1139 Lincoln Road. 7-11

Fla., Miami—Biscayne Boulevard Co., Paul R. Scott, Pres., 1317 Biscayne Blvd., let contract to Harrison Construction Co., N. E. 45th St., for 2-story store, Biscayne Blvd. and 14th St. to be occupied by Burdines, Inc., R. B. Burdine, Pres.; 40,000 sq. ft. floor space; Weed & Virrick, Archts., 2620 Biscayne Blvd. 7-18

Fla., Palm Beach—Palm Beach Co., R. C. Alley, Resident Mgr., Seaview Ave., let contract to Thomas F. Demsey for \$35,000, 2-story, 30 x 70 ft. store; Addison Mizner, Archt. 7-4

Fla., St. Augustine—McCrory Stores Corp., F. H. McInerney, Constr. Mgr., 1107 Broadway, New York, let contract to Kendrick Engineering Co. to remodel store on St. George St.; \$15,000. 7-11

Fla., West Palm Beach—E. M. Smith let contract to C. G. Warner Co., Inc., 710 Up-land Rd., for store, Dixie and Flamingo Sts. 7-11

Ga., Savannah—Bernard's Stores, Inc., B. M. Lighton, V.-P., New York, let contract to George C. Ransom for remodeling building, 105-07 Broughton St. 7-11

La., Lake Providence—J. Martian Hamley and others started work on \$10,560, 1-story, 40x100-ft. brick and tile store; wood floors;

Morgan & Lindsay, Lessees, Jasper, Tex.; Albert G. Simms, Archt.-Bldr., Lake Village, Ark. 7-11

La., Monroe—W. L. Ethridge, 2101 St. John Drive, erecting \$40,000, 2-story, 95x150 ft., brick building, Washington and Second Sts., for stores and garage; conc. and wood floors, built-up roof; Blaine Contracting Co., Contr., Bastrop; equipment purchased; J. W. Smith & Associates, Archts., Quachita Natl. Bk. Bldg. 7-11

La., Monroe—T. L. Tippit, 405 McKinley St., and W. A. Walker, Jr., Bernhart Bldg., let contract to W. R. Terry, 1804 Grand St., for \$15,000, 1-story, 60x115-ft. brick 3-store, Jackson St. and Stone Ave.

Md., Frederick—S. S. Kresge Co., 74 W. Adams St., Detroit, let contract to George F. Hazlewood, Pershing St., Cumberland, for 2-story, brick store, 26 N. Market St. 7-11

Miss., Tupelo—Mrs. E. C. Yates erect \$20,000 building for J. C. Penney Co.; 1½ stories, 50x100 ft., brick, tin roof; Tupelo Lumber Co., Bldr.

Mo., St. Louis—F. W. Woolworth Co., 500 Washington St., M. W. Smith, Local Mgr., started work on \$350,000, 4-story building, 8th and Olive Sts., to replace 2 buildings recently destroyed by fire; steel frame, rein. conc. floors, terra cotta exterior trim, interior of first floor finished with travertine marble floor and mahogany wainscot; Aegerter & Bailey, Archts., Railway Exchange Bldg.; 40 ft. front portion on Olive St. to be occupied by Thompson Restaurant for which Preston J. Bradshaw, 718 Locust St., has prepared plans; Humes-Deal Co., Contr., Arcade Bldg. 7-4

Tex., Alice—Charles Bros. let contract to J. A. Smith for \$17,000, 1½-story brick store, Main and Wright Sts.; J. C. Penney & Co., Inc., Lessee.

Tex., Austin—Bohn Bros., 515 Congress St., let contract at \$24,000 to J. J. Wattinger, 608 Augusta St., for remodeling and erecting department store addition; 2 stories, new front, floors, basement, new fixtures; H. F. Kuehne, Archt., Littlefield Bldg. 7-18

Tex., El Paso—C. D. Freeman, 418 Myrtle Ave., erect 60x120-ft. brick building, 108-10 S. Campbell St.; Ramey Bros., Contrs., 1614 E. Missouri St.; W. G. Wuehrmann, Archt., Two Republics Bldg.

Tex., Del Rio—M. Stoll let contract to Eagle Pass Lumber Co. for \$40,000, 2-story, 44x142-ft., brick and conc. store, to be leased to Montgomery Ward & Co., Chicago; Page Bros., Archts., Austin Natl. Bk. Bldg. 7-18

Tex., Floydada—B. B. King let contract to Stephenson & Thurmon for \$12,000, 50x100-ft. brick and tile store.

Tex., San Saba—W. W. Hart, Llano, erect 20x84 ft., tile and brick store on High St.

Va., Richmond—Caesar Massei soon start work on 3-story, business and recreation building, 6th and Franklin Sts.; brick, stone and steel; \$300,000, including site; 7 stores on ground floor; bowling alleys on second floor to be leased to Richmond Bowling Alleys, Inc., W. A. Haskins, Mgr.; work under supervision Mr. Massei.

Theaters

Okl., Oklahoma City—Cook-McDonnell Co., 627½ W. Second St., has contract for plumbing and heating and Gaddis-Fentress Electric Co., 635 W. Main St., has contract for wiring \$600,000, 10-story, brick and stone theater and office building for Midwest Enterprise Co., John Sinopulo, Pres., 320½ W. Grand St.; 2 floors for theater, upper floors offices; Reinhart & Donovan Co., Gen. Contr., Commerce Exchange Bldg.; John Ebersson, Archt., 212 E. Superior St., Chicago. 6-20

Warehouses

Ark., Fort Smith—Wortz Biscuit Co., C. H. Wortz, Pres., 611 N. 14th St., start work in few days on \$25,000, 2-story, 100x140-ft., steel, conc. and conc. block warehouse, S. Fifth St. and Parker Ave.; O'Neal & Drake, Contrs.

Ga., Atlanta—Monroe Bonded Warehouse Co., T. J. Monroe, 150 Peters St., S. W., erect \$12,000, 3-story, 20x149-ft., rein. conc. addition; steam heat, comp. roof; owner, Archt.-Bldr.

Ga., Atlanta—Rogers, Inc., 682 Whithall St., S. W., let contract to T. R. Benning, Haas-Howell Bldg., for \$21,000, 3-story, 60x86 ft., brick and rein. conc. addition to warehouse and office building; tar and gravel roof.

Ga., Hartwell—Hartwell Grocery Co., I. J. Phillips, Pres., let contract to J. W. Temples & Sons for 2-story, brick and frame warehouse.

Mo., Clayton, St. Louis—Clayton Supply Co., 18 N. Meramec St., erecting 1-story warehouse, Gay Ave. and Ladue Road; 7200 sq. ft. floor space.

Okl., Tulsa—National Supply Co., 9 S. Main St., let contract to W. H. Horster, Exchange Natl. Bk. Bldg., for \$75,000, 3-story, 75x125-ft. storage and distributing plant; A. M. Atkinson, Archt., Mid-Continent Bldg.

Tex., Dallas—Parks Investment Co., Kirby Bldg., started work on 2-story, 27x270 ft., brick, stone trim building, Commerce St. and Parry Ave., for general branch offices and warehouse of B. F. Goodrich Rubber Co.; terrazzo, rein. conc. and wood floors, electric freight elevator, dumb elevator and steel chute, loading dock to serve driveway 21 ft. wide; F. J. Woerner & Co., Archts., will supervise construction, of which E. W. Chambers will have charge.

THE CLASSIFICATIONS IN THIS SECTION ARE:

WANT SECTION

Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

Machinery and Supplies

Air Compressor (Portable).—Ed. P. Phillips Machinery Co. (Construction Equipment and Contractors Supplies), Ninth and Cary Sts., Richmond, Va.—Wants prices and data on portable, electric air compressor, 110 or 120 cu. ft. capacity, equipped with electric motor, 220 volt, 3 phase, 60 cycle.

Band Saw Rig.—H. L. Solomon, Panama and Palmetto Sts., Montgomery, Ala.—Wants prices and data on small band saw rig, to be operated by gasoline engine.

Casing and Pipe.—Harper Oil Co., Austin, Tex.—Wants casing and pipe.

Canning Plant Equipment.—Chamber of Commerce, Teague, Tex.—Wants equipment for small cannery, or will purchase plant, second hand, if close enough to Teague to move it.

Ice Machine.—R. M. Hold, Spencer, N. C.—Wants prices and data from manufacturers of ice machines.

Induction Motors (Slip Ring).—Electrical Equipment Co., 408-10 W. Davie St., Raleigh, N. C.—Wants prices and data on General Electric, 50-h. p., 220-volt, 900-r.p.m. 3-phase, 60-cycle, slip ring type induction motors.

Mixer (Bakery).—Excelsior Springs Baking Co., Excelsior Springs, Mo.—Wants prices on Day high speed mixer for bakery.

Ram (Hydraulic).—Security Warehouse Co., Inc., L. E. Floyd, LaGrange, Ga.—Wants prices and data from manufacturers of Rife and other hydraulic rams.

Street Car Equipment.—Ed. P. Phillips Machinery Co. (Construction Equipment and Contractors Supplies), Ninth and Cary Sts., Richmond, Va.—Wants data and prices on street car equipment.

Tractor (Crawler) and Road Machine.—City of Greenwood, S. B. Rambo, City Engr., Greenwood, S. C.—Wants prices and data on crawler tractor and road machine.

W. A. Carver, Rougemont, N. C.—Wants prices and data on following:

(1) **Lathe**—for turning hammer, pick and axe handles

(2) **Motors (Electric)**—5 to 10-h. p.

(3) **Sanding Machine**—for finishing handles.

Guyon Machine Shops, Inc. (Mchy Dealer), Logan, W. Va.—Wants prices and data on following:

(1) **Lathe**—for turning steel tires and steel locomotive wheels up to 40-in. diam. and from 32 to 48-in. gauge

(2) **Motors**—a. c. and d. c., 2-h. p., 220-volt

(3) **Oven (Japanning)**—for baking large armatures, natural gas or electric heat

(4) **Pulleys**—steel split, 12, 14, 16 to 18 in. diameters

(5) **Pumps (Centrifugal)**—for coal mine, 500 to 1000-g. p. m., 150-ft. head, operated by 440-volt, 3-phase, 60-cycle motors, not over 36 in. high

(6) **Punch and Shear**—preferably No. 1½ Buffalo Universal Iron Worker

(7) **Welding Machines (Electric)**—200 to 300-ampere, gasoline driven.

W. M. Smith & Co. (Mchy. Dealer), Birmingham, Ala.—Wants prices and data on following used equipment:

(1) **Drill Press**

(2) **Wheel Press**—150 to 200-ton.

Miscellaneous.

Coat Hangers (Wire).—D. China, 120 W. Trinity Ave., Durham, N. C.—Wants prices and data from manufacturers of wire coat hangers.

Culverts (Galvanized Iron).—F. C. Kornrumpf & Son, Magnolia, Miss.—Wants prices and data from manufacturers of galvanized iron culverts.

Electric Ranges and Refrigerators.—Henry D. Mooror, Bay Minnette, Ala.—Wants prices and data from manufacturers of electric ranges and electric refrigerators.

Knockout Caps (Switch Box).—Modern Electric Co., Inc., W. E. Brown, Mgr. (Electrical Contrs.), 318 Morgan St., Durham, N. C.—Wants prices and data from manufac-

turers of knockout caps for knockout holes in electric switch boxes.

Label Plates (Tin).—J. Ashby Sprint, Winchester, Va.—Wants prices and data on tin label plates for end of apple barrels, to be used for brand plates.

Lamps (Gasoline Vapor).—J. S. Wilson, Bailey, N. C.—Wants prices and data from manufacturers of portable, gasoline vapor lamps, for domestic and public use.

Novelties.—H. B. Geary, 59 Pearl St., Metuchen, N. J.—Wants prices and data from manufacturers of new and novel articles, preferably associated with cigar trade.

Office Furniture.—B. F. Jarratt, Stony Creek, Va.—Wants prices and data from firms handling used office furniture, preferably those handling large stock.

Ornamental Concrete Products.—Couper Marble Works, 294-296 Bank St., Norfolk, Va.—Wants prices and data from manufacturers of imitation granite settees and garden furniture.

Paper Bags, etc.—J. E. Moore, 302 Crosby St., West Monroe, Monroe, La., plans entering wholesale paper and pencil business—Wants prices and data from manufacturers of paper bags, paper, etc.

Tanks, etc.—Charlottesville Oil Corp., A. T. Dulaney, Pres., Ruckersville, Va.—Wants prices and data on following:

(1) **Pumps**

(2) **Tanks**—horizontal, with steel supports

(3) **Tanks (storage)**—underground, 550 and 1000-gal.

Hedges Roofing Co., Corpus Christi, Tex., general office, Houston, Tex., wants to make connection with manufacturers of metal doors, sash, fire doors, toilet partitions, metal trim, and other sheet metal specialties, prefers to deal direct with manufacturers.

Cleanosol Mfg. Co., 611 Central Ave., P. O. Box 1355, St. Petersburg, Fla.—Wants prices and data from manufacturers of following:

(1) **Counter Display Stands**—for merchandise

(2) **Tin Foil Products**—envelopes, etc.

James A. Fuson, P. O. Box 108, Wellsburg, W. Va., will manufacture drugs — Wants prices and data on following:

- (1) Bottles
- (2) Boxes—small, paper and tin
- (3) Cartons—paper
- (4) Labels, Tags, etc.—printed
- (5) Racks or Cases—small display, wire or light sheet metal
- (6) Shipping Containers—standard.

W. F. Bridgers, Pres., Red Top Cab Co., Inc., Page Ave., Asheville, N. C.—Wants prices from firms in position to manufacture a patented gas generator made of sheet metal, etc.

Building Material and Equipment

Fleisher Engineering & Construction Co., Wrigley Bldg., Chicago, Ill., estimating on \$650,000 U. S. Veterans Hospital, Atlanta, Ga., bids Aug. 6, and wants sub-bids on all lines.

Chalker & Lund, Inc., Contr., Phipps Plaza Bldg., Palm Beach, Fla., wants prices on following for \$25,000 grade school, South Bay, Fla.:

Flooring—hardwood, tile
Roofing—asbestos and asphalt shingle
Ventilators.

H. B. Nelson Construction Co., S. F. C. Bldg., Augusta, Ga., wants prices on following for additions to Ward C and for nurses' quarters, Fort Benning, Ga.:

Cast Stone
Dumb Waiters
Flooring—hardwood, terrazzo, tile, composition.

J. L. Hearn, Ballinger, Tex., wants prices on used steam heating plants for 12-room hotel.

J. N. Bryan & Son, Raleigh, N. C., wants prices on following for bldg., State Hospital, Raleigh, bids Aug. 6:

Flooring—Bloxonend
Kalamine Doors and Frames
Metal Base and Trim
Steel Doors and Frames (for strong rooms).

Rev. C. C. Matheny, Pastor, Alexander Baptist Church, Forest City, N. C., wants prices on following for \$14,000 church:

Metal Ceilings
Plaster Board
Rolling Partitions
Roofing—asphalt shingle
Tile—hollow
Brass and Bronze Work.

E. H. Eads & Co., Archts., Chickasha, Okla., want prices on following for \$20,000 school near Roosevelt, Okla.:

Cast Stone
Metal Ceilings
Plaster Board
Roofing (flat)—built-up

W. J. Goggan, Bldr., 1106 Bank St., Houston, Tex., wants prices on following for dwelling:

Flooring—linoleum, terrazzo, tile
Plaster Board
Tile.

Forrest M. Gill, Pres. Park Bd., Chillicothe, Mo., wants prices on following for \$20,000 swimming pool and bath house:

Asbestos Shingle
Steel Sash and Trim.
Klehnell & Elliott, Archts., Seybold Bldg., Miami, Fla., want prices on following for dwelling.

Cast Stone
Flooring—hardwood, terrazzo, tile
Incinerator
Roofing—tile
Steel Sash and Trim
Tile—hollow
Iron Gates, Grilles, etc.

Bids Asked

Athletic Supplies.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids July 29 for athletic supplies, delivery Philadelphia, Pa.

Barbed Wire, Fence Posts, etc.—H. L. Washburn, Harris County Auditor, Houston, Tex.—Bids for 6000 fence posts and 250 rolls barbed wire for Crosby road.

Boat Hoist and Dock.—Fernandina, Fla.—See Construction News Columns—Miscellaneous Construction.

Bridges.—Magnolia, Miss. Bids for 7 bridges. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Fort Lauderdale, Fla. See Construction News—Bridges, Culverts, Viaducts.

Bridges.—Independence, Mo. Bids for 2 bridges. See Construction News—Roads, Streets, Paving.

Bridges.—State of Alabama. Bids for 9 bridges and approaches. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Vernon, Tex. See Construction News—Bridges, Culverts, Viaducts.

Bridges.—Waxahachie, Tex. Bids for 3 bridges. See Construction News—Bridges, Culverts, Viaducts.

Caustic Soda Flake.—U. S. Helium Production Plant, Bureau of Mines, Amarillo, Tex.—Bids July 29 for furnishing 180,000 lb. caustic soda flake in carload lots as required during fiscal year ending June 30, 1930.

Coal.—U. S. Engr. Office, Vicksburg, Miss.—Bids July 29 for 18,000 tons coal.

Coal.—Business Mgr., Lincoln University, Jefferson City, Mo.—Bids July 31 for furnishing 1200 tons Southern Illinois lump coal.

Coke.—U. S. Engr. Office, Huntington, W. Va.—Bids July 29 for coke, 72 hour foundry, suitable for forging purposes.

Culvert.—State of South Carolina. See Construction News—Roads, Streets, Paving.

Dredging.—Baltimore, Md.—See Construction News Columns—Drainage, Dredging and Irrigation.

Drills, Hammers and Chisels (Pneumatic).—Navy Dept., Bureau of Supplies and Accounts, Washington, D. C.—Bids Aug. 6 for pneumatic drills, hammers and chisels.

Gasoline.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids July 30 for gasoline.

Heating Plant.—Q. M. Supply Officer, Washington, D. C.—Bids July 29 for installing hot water heating plant in superintendent's lodge, Glendale National Cemetery, Elko, Va.

Incinerator.—Mayor and Commrs., Greenwood, Miss.—Bid Aug. 6 for refuse incinerator, including building and furnace, not to exceed \$25,000, furnace to be capable of destroying 20 tons mixed refuse in 10 hours.

Induction Motor.—U. S. Engr. Office, Huntington, W. Va.—Bids July 31 for induction motors.

Jetty Repairs.—U. S. Engr. Office, Galveston, receives bids until Aug. 27 for repairing Sabine Pass east jetty. See Construction News Columns—Miscellaneous Construction.

Launch.—U. S. Engr. Office, Wilmington, N. C.—Bids Aug. 1 for wood hull launch, motor to operate 16-in. metal lathe.

Lumber.—Marine Corps, Q. M. Dept., Washington, D. C.—Bids July 27 for 30,000 b. m. ft. white pine lumber, delivery, Washington, D. C.

Leather (Bookbinding).—Government Printing Office, Pur. Agt., Washington, D. C.—Bids Aug. 5 for 3960 sq. ft. highest quality durable bookbinding leather.

Levee.—Clerk of Bd. of Supervisors of Union County, T. E. Marshall, New Albany, Miss.—Bids Aug. 5 for levee. See Construction News Columns—Miscellaneous Construction.

Levee.—Arkansas—See Construction News Columns—Miscellaneous Construction.

Levee.—New Orleans. See Construction News Columns—Miscellaneous Construction.

Paper.—U. S. Engr. Office, Vicksburg, Miss.—Bids July 31 for 160,000 lb. kraft paper.

Paving.—Miami, Fla. See Construction News—Roads, Streets, Paving.

Pipe, Cement, etc.—Comms., Dist. of Columbia, Washington, D. C.—Bids July 30 for terra cotta pipe, granite curbing, vitrified sewer invert brick, sewer seal compound and Portland cement, as required during fiscal year 1930.

Pipe (Vitrified).—See Sewers.

Pipe (Terra Cotta).—See Sewers.

Road.—Fayette, Miss. See Construction News—Roads, Streets, Paving.

Road.—State of South Carolina. See Construction News—Roads, Streets, Paving.

Road.—Kaufman, Tex. See Construction News—Roads, Streets, Paving.

Roads.—Independence, Mo. Bids for 4 roads. See Construction News—Roads, Streets, Paving.

Road.—Mansfield, La. See Construction News—Roads, Streets, Paving.

Road Building Equipment.—Warren County Highway Comm., Paul M. Polk, Sec., Vicksburg, Miss. Bids Aug. 5 for following: One or more 2 to 2½-ton dump body trucks, fully equipped; one or more 12-ft. road maintainers.

Roads.—State of Maryland. Bids for 6 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Texas—Bids for 2 roads. See Construction News—Roads, Streets, Paving.

Roads.—St. Joseph, La. Bids for 3 roads. See Construction News—Roads, Streets, Paving.

Roads.—State Highway Dept., Dover, Del. Bids Aug. 13 for 2 roads: Cont. 119—3.96 mi. Levels road; 15,500 cu. yd. excavation and borrow, 3,500 cu. yd. cement conc. paving, 1,000 sq. yd. conc. gutter; Cont. 135—2.2 mi. Farmington to Andrewsville traffic bound road; 9,000 cu. yd. excavation and borrow, 3,200 tons crushed stone surface course, or 2,600 tons crushed slag surface course.

Roads.—State of Tennessee—Bids for 14 roads. See Construction News—Roads, Streets, Paving.

Road.—Vicksburg, Miss. See Construction News—Roads, Streets, Paving.

Roads.—Hernando, Miss. Bids for 4 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Oklahoma. Bids for 8 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Texas. Bids for 4 roads. See Construction News—Roads, Streets, Paving.

Road.—State Highway Dept., Allen Craig, Sec., Dover, Del. Bids Aug. 13 for .95 mi. Novontown Pond road; 4,500 cu. yd. excavation, 1,700 cu. yd. cement conc. pavement.

Roads.—Fayetteville, W. Va. Bids for 2 roads. See Construction News—Roads, Streets, Paving.

Roads.—Water Valley, Miss. Bids for 2 roads. See Construction News—Roads, Streets, Paving.

Roads.—Galveston, Tex. Bids for 6 roads. See Construction News—Roads, Streets, Paving.

Road.—Dallas, Tex. See Construction News—Roads, Streets, Paving.

Road.—State of Alabama. See Bridges, Culverts, Viaducts.

Roads.—Mobile, Ala. Bids for 2 roads. See Construction News—Roads, Streets, Paving.

Road Grader.—Mayor and City Council, Cumberland, Md.—Bids July 29 for road grader.

Sewage Disposal Plant.—City, E. M. Knox, Clk., High Point, N. C.—Bids Aug. 14 for constructing activated sludge type sewage disposal plant and all appurtenances to serve West Side or Oak Hill District of High Point; work will consist of administrative or control house, complete with low lift pumping station, compressor, sludge filter plant, laboratory, etc.; aeration tanks; screen and grit chambers; cast iron and vitrified pipe lines; valves; meters; grading of premises; roadway paving, etc.; specifications, etc., from William C. Olsen, Inc., Consult. Engrs., Raleigh, N. C.

Sewers.—Bd. of Commrs., Huntington, W. Va.—Bids July 31 for lateral, storm and sanitary sewers. See Construction News Columns—Sewer Construction.

Sewers.—City of Jackson, Ky., A. W. Brown, Mayor—Bids Aug. 1 for sanitary sewer system; Neal W. Knight, Consult. Engr., Louisville.

Sewers.—Baltimore County Commrs., Towson, Md.—Bids Aug. 5 for excavation of trenches and furnishing and laying vit. pipe sewers and appurtenances in certain streets in Overlea, under Cont. No. 17-8, Cont. 18-8 and Cont. 19-8 work includes 15,850 ft. of 8-in., 160 ft. of 10-in., 2610 ft. of 12-in., t. c. sewer; 165 ft. of 15-in., 1350 ft. of 18-in. T. C. D. C. sewer; brick masonry manholes; 20,000 sq. ft. conc. sidewalk repaving and miscellaneous items; Outfall sewer along Red House Run, south from Hazlewood Ave.—230 ft. of 15-in., 3000 ft. of 24-in. T. C. D. C. sewer; Sewers in certain streets in Catonsville—5300 ft. of 8-in., 322 ft. 10-in., terra cotta sewers; 590 ft. of 15-in. T. C. D. S. sewer; brick masonry manholes; conc. sidewalk repaving; B. L. Crozier, Ch. Engr. Baltimore County Metropolitan Dist., Court-house, Towson.

Shell, etc.—Duval County Commrs., Frank Brown, Clk., Jacksonville, Fla. Bids Aug. 1 for 25,000 cu. yd. clean dredged or dead oyster shell, periwinkle shell, and Florida limerock.

Trucks.—Q. M., Marine Corps, Washington, D. C.—Bids July 30 for 20 1-ton trucks.

Trucks (Light Delivery).—Marine Corps, Q. M. Dept., Washington, D. C.—Bids July 29 for light delivery trucks.

Underpass.—Lakeland, Fla. See Construction News—Bridges, Culverts, Viaducts.

Water Mains.—City, W. E. Monteith, Mayor.—Bids July 24 for water mains. See Construction News Columns—Water Works.

Water Pump.—U. S. Engr. Office, Memphis, Tenn.—Bids July 27 for 750-g. p. m. turbine-driven, centrifugal water pump.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Seaboard Air Line Adjustment Bonds.

The announced plans of the Seaboard Air Line Railway Company relating to 5 per cent adjustment mortgage gold bonds due 1949, in connection with recapitalization details, have resulted in deposits of these bonds to an amount approximating \$15,000,000 out of a total of \$25,000,000. The advantages of the plan, however, cannot be fully realized, it is said, unless holders of the adjustment bonds deposit all of them, and in order to give holders who have not yet deposited their bonds a further opportunity to do so, the Adjustment Bond Holders' Committee, of which Charles S. McCain, president of the National Park Bank, New York, is chairman, has extended the period for deposit to July 31. Bonds may be deposited with the National Park Bank, 214 Broadway, New York, and information obtained from Edmund Burke, Jr., 63 Wall street, New York.

Hercules Engines on Gas Line.

Eighteen standard Hercules heavy duty engines, manufactured by the Hercules Motors Corporation, Canton, Ohio, will be used for auxiliary power purposes in pumping stations on the new 450-mile natural gas line under construction from Monroe, La., to St. Louis, Mo., for the Mississippi River Fuel Corporation, St. Louis, a subsidiary of the Standard Oil Company of New Jersey. Five pumping stations will be erected on the line and in these the Hercules engines, operating on natural gas, will be used to drive air compressors and for operating centrifugal pumps in connection with cooling tanks and towers for stationary power equipment. Stations will be about 90 miles apart, at Perryville, La.; Star City, Ark.; West Point, Ark.; Biggers, Ark., and Fredericktown, Mo.

Birmingham Company Enlarging.

The elevating, conveying, screening and power transmission department of the Chas. C. Seward Machine Company, machinists and engineers of Birmingham, Ala., is being enlarged and W. E. Harris, formerly with the Stephens-Adamson Manufacturing Company, has been placed in charge. In its announced plan to enlarge its sales department and to cover the South, the company declares it will be the first organization south of the Ohio River to engage in the design and manufacture of a complete line of elevating, conveying, screening and power transmission equipment.

Lombard Iron Works Officers.

The following officers and directors have been named by the Lombard Iron Works & Supply Company, Augusta, Ga.; J. G. Belding, president; W. A. Rigsby, treasurer; S. Donald Fortson, secretary; George S. Lombard, S. A. Fortson, I. S. Ferguson, J. G. Belding and W. A. Rigsby, directors. The president has appointed Howard M. Leitner, superintendent; J. L. Burford, cashier, and E. J. Hanahan, manager of the mill supply department. This is one of the largest enterprises of its kind in the South, handling a diversified line of mill supplies, machinery and tools.

Ramp Building Corporation President.

Fred W. Mole, vice president of the Ramp Building Corp., New York, and for a number of years in charge of the company's field activities, has been elected president. The corporation serves as garage engineers and consultants.

General Electric Orders Increase.

For three months ended June 30, the General Electric Company, Schenectady, N. Y., received orders amounting to \$119,351,248, as compared with \$90,431,957 for the corresponding period in 1928, according to Gerard Swope, president of the company. Orders booked for six months ended June 30 amounted to \$220,716,456, as compared with \$170,357,797 for the first half-year of 1928.

"Elverite" Products.

As a tribute to J. S. Elverson who has specialized for more than 25 years in the chilled casting work of the Fuller Lehigh Company, Fullerton, Pa., the company announces that henceforth all its chilled products will be known as Elverite. Elverite is claimed to be a superior grade of chilled iron, developed under the direction of Mr. Elverson, who is considered an authority in the field of metallurgy.

Yale & Towne Buy Cincinnati Interests.

The Yale & Towne Manufacturing Company, Stamford, Conn., manufacturers and distributors of material handling equipment, have purchased the Stuebing Cowan Company, Cincinnati, Ohio, manufacturers of hand lift trucks. Yale & Towne products consist of hoisting apparatus, both hand and electrically operated; overhead trolleys and overhead trackage systems, and electric industrial trucks. Acquisition of the Stuebing Cowan interests will add a complete line of single and multiple lift hand trucks. Sales will continue under the supervision of James C. Morgan, with Walter C. Stuebing, assistant, in charge of truck sales, and William Stuebing continuing as superintendent of the plant at Cincinnati, where a large and modern factory for the manufacture of hand lift trucks and skid platforms is under construction.

Hercules Powder Listed.

Common and preferred stocks of the Hercules Powder Company, Inc., Wilmington, Del., one of the largest producers of basic raw materials in the country, have been listed on the New York Stock Exchange. Representing assets of more than \$50,000,000 the Hercules securities consist of 114,241 shares of cumulative preferred stock of \$100 par value and 508,000 shares of no par value common stock. R. H. Dunham is president of the company and chairman of the board of directors. In addition to explosives, the company manufactures a diversity of products such as nitrocellulose, purified cotton linters, turpentine, rosin and pine oil. It maintains large naval stores plants at Brunswick, Ga., and Hattiesburg and Gulfport, Miss.; dynamite plant at Bessemer, Ala., and a purified cotton linters plant at Hopewell, Va.

General Industrial Agent of Illinois Central.

The Illinois Central System, through D. W. Longstreet, vice president, Chicago, announces the appointment of Mark Fenton as general industrial agent of the system. The post is a new one and marks the aggressive expansion of the activities of the Illinois Central in the industrial development of the territory covered by its lines. Mr. Fenton will render direct service to communities served by the railroad in connection with their own programs for industrial expansions and will co-operate with local civic organizations in their efforts to obtain new industries and expand and develop existing ones. In addition he will supply information and advice to industries seeking new sites in the Illinois Central territory.



Mark Fenton

Mr. Fenton is nationally known in the industrial and chamber of commerce fields, his experience covering a period of 27 years as a member of the Illinois Central organization, chiefly in development work, and 10 years as industrial commissioner of local and state chambers of commerce. His appointment will make possible the expansion of both the agricultural and industrial departments of the Illinois Central System, heretofore under the supervision of H. J. Schweibert, general development agent. Mr. Schweibert will continue as general agricultural agent, having charge of agricultural development and colonization activities.

L. A. Downs, president of the Illinois Central, observes that the appointment of Mr. Fenton marks a definite step forward in the relations of the railroad with its patrons and that the field is most inviting. He says: "When the Illinois Central System was first established, three-quarters of a century ago, the Middle West and the South were just beginning to come into their own as producers of raw materials, and manufacturing was regarded as something pertaining solely to the more thickly settled regions of the East. The passage of the years has served to change that picture greatly. Today the possibilities of manufacturing in the Middle West and the South are not exceeded by those of any other part of the country. A large consuming population is close at hand, and the rich markets of Latin America beckon through the convenient gateways of the Gulf of Mexico."

Adds Sprucolite Pulley Line.

The American Pulley Company, Philadelphia, manufacturers and distributors of American steel split pulleys, pressed steel hangers and pressed steel hand trucks, have taken over all products of the Sprucolite Corporation, Bloomfield, N. J. This new line, to be known as American Sprucolite pulleys, will be distributed through regular American Company warehouses at Boston, New York, Chicago, Seattle, San Francisco and Los Angeles, and through the Pressed Metal Manufacturing Company, Houston, Tex. It comprises standard and special motor pulleys, machine and shafting pulleys, V-belt pulleys, flange pulleys, taper and step cone pulleys, multi-crown pulleys, rolls, drums and friction fillers.

Westinghouse Buys Signal Company.

The Westinghouse Electric Elevator Co., East Pittsburgh, Pa., announces the purchase of the Norton-Blair-Douglass Company, New York City, manufacturers of elevator signals and electric and manual door operators. This acquisition, it is said, will give the Westinghouse company a better control of the engineering features of elevator installations.

Buys Toll Bridge.

The Federal Bridge Company, New York City, which has a number of toll bridge developments under way in Virginia, recently purchased and is now operating a toll bridge at Stroudsburg, Pa.

Trade Literature

Blue Printing Machine.—The new Peerless model 30 blue printing machine, manufactured by the C. F. Pease Company, Chicago, is described in detail in a special brochure distributed by the company. Outstanding features are production speed, high quality prints and low operating costs.

Hydraulic Turbine.—The S. Morgan Smith Co., York, Pa., which recently acquired the right of manufacture in America of the Kaplan automatically adjustable blade hydraulic turbine, describes the turbine in detail in Bulletin No. 122. As manufactured by this company, it is called the Smith-Kaplan tur-

bine and is stated to be particularly effective in the development of low head or run-of-river water powers, operating with efficiency under a wide range of head and load conditions.

500 Business Magazines.—A list of 500 business magazines classified by subjects which they cover has been compiled by the staff of the Business Branch of the Public Library, Newark, N. J., under the direction of John Cotton Dana, and is now being distributed in booklet form. This is the second edition of the publication, the first having appeared in 1926; it has been revised and enlarged.

Spray Painting Equipment.—The Binks Manufacturing Company, Chicago, engineers and manufacturers of spray equipment, have issued Bulletin R, a new railroad catalog, which explains by photos and description the uses and methods of operating railroad spray painting equipment. Separate sections are devoted to spray painting and finishing of passenger equipment, to mechanical equipment, freight equipment and bridge and building maintenance.

Hospitals and Office Buildings.—Jenkins Bros., New York City, valve manufacturers, are distributing brochures Nos. 1 and 2 featuring architectural developments of hospitals and office buildings respectively, these two of a series covering hospitals, office buildings, schools, hotels, stores and industrial plants. Copper etchings used for illustrations of new buildings are the work of Donald Douglass, New York architect.

Crushing and Pulverizing.—Three pamphlets published by the Sturtevant Engineers, a division of the Sturtevant Mill Co., Boston, Mass., are designated as Manual A, Manual B and Manual C of a series intended to show the mechanical and commercial application of crushing, grinding, pulverizing, separating and elevating equipment. Manual A deals with the mechanics of profitable pulverizing; Manual B with the principles of air separation and Manual C with classified vibration—the improved principle of screen operation.

Byers Catalog No. 629 describes in detail a $\frac{3}{4}$ -yard crane, shovel and dragline announced by the Byers Machine Company, Ravenna, Ohio. The machine is new in model but old in design, the same design being carried through all models from the Bull-Dog $\frac{1}{2}$ -yard to the Master $1\frac{1}{4}$ -yard model. The Byers' independent crowd is an outstanding feature of the machine, as brought out in the catalog. The company also builds the $\frac{1}{2}$ -yard, $\frac{1}{2}$ -circle Bear-Cat machine.

Door Jambs and Trim.—A leaflet distributed by the Truscon Steel Co., Youngstown, O., announces the Truscon integral door jamb and trim and presents details and specifications. The device combines door frame, bucks, lintels, jamb, casing, doorstep, transom bar and transom casing. It is fabricated from standardized steel parts of both single and double openings, of standard dimensions, each frame being securely anchored to the wall and rough floor.

Appeal to Louisiana Governor to Drop Plans for Occupational Tax on Industry

New Orleans, La., July 20.—Governor Long has been appealed to by eight prominent business men of Louisiana, representing various financial and industrial interests, to drop all plans for an occupational tax on industry and so make it possible for this state to get certain large development enterprises which, with such an assurance, would probably locate in Louisiana.

The signers of the appeal are H. C. Couch, president, and R. S. Atkinson, vice-president of the Louisiana and Arkansas Railroad; John E. Bouden, Lynn R. Dinkins, R. S. Hecht and J. P. Butler, presidents of New Orleans banks; A. D. Danziger, president of the New Orleans Association of Commerce, and W. L. Etheridge of Monroe.

In their appeal, they say they have high hopes of inducing outside capital to spend \$20,000,000 in building a chemical plant in Louisiana.

Governor Long, several months ago, tried to force through an occupational tax on the Standard Oil Company. This resulted in his impeachment proceedings. He beat the proceedings, and though he

withdrew the measure from the legislature when the disturbance broke out, he announced that it was by no means dead. Since then, the Standard Oil Company has decided to build in New Jersey a plant-expansion originally intended for Louisiana, and for which machinery was actually sent to this state.

According to a press dispatch received after the foregoing was written, Governor Long has yielded to the plea of the business men to drop his occupation tax plan. And with the Governor's agreement, as made public in a letter to the bankers and business men's group, the establishment of industries involving an initial investment of \$28,500,000 was announced. R. S. Hecht announced plans for a \$20,000,000 chemical plant. The plant will be operated by American interests, Mr. Hecht indicated, on behalf of the German Dye Trust, some of the American directors being Edsel Ford, Charles E. Mitchell of the National City Bank of New York, and President Teague of the Standard Oil Company of New Jersey.

D. R. Weller, president of the Standard Oil Company of Louisiana, announced in Baton Rouge that, on the same basis, the company would go through with its program for establishing a new \$8,500,000 refining plant there and would further pledge itself to make no court fight against the increased severance taxes on oil and gas imposed by the 1928 Legislature.

Flintkote Company Acquires Georgia Plant

The Flintkote Company, Boston, Mass., has acquired the asphalt roofing plant at Atlanta, Ga., of the Logan-Long Company, where the Flintkote organization will produce asphalt shingles and roofings. The Atlanta factory is comparatively new and is expected to prove an important addition to the manufacturing facilities of the purchasing company.

Early in January, 1927, the Flintkote Company purchased a felt mill and roofing plant at New Orleans, the initial investment approximating \$1,000,000, and immediately provided additional buildings and equipment at large expenditures. The New Orleans mill is said to be the only one of its kind in the South and uses rags largely as its raw material for production of felt. This conservation of waste, which is turned into asphalt shingles, is estimated at \$500,000 annually. All available material used by the Flintkote Southern organization comes from Southern markets, it is said, including mineral surfacings from northern Georgia, asphalt processed at New Orleans from oils produced in Louisiana and Texas, nails from Birmingham and veneer boards from Mississippi, these purchases amounting to about \$1,000,000 yearly.

Railroads Set New Record in Moving Freight Traffic

The railroads of this country are now moving freight traffic with the greatest speed ever obtained by them, according to reports just filed by the rail carriers with the Bureau of Railway Economics and now made public.

The average speed of freight trains in May was 13.3 miles per hour, which was slightly greater than that for April. This is the highest average that has ever been reached in any month. The average daily movement per freight car in May was 32.9 miles, which exceeds the previous average for any May on record, having been 1.8 miles greater than for May, 1928, and 2.7 miles greater than for May, 1927.

The average load per car in May this year was 26.7 tons, including less than carload lot freight as well as carload freight. This was an increase of four-tenths of a ton above that for May, 1928, but a reduction of two-tenths of a ton under May, 1927.

New Bank Laws for Florida

Tallahassee, Fla.—Amendments to the corporation and banking laws of Florida passed recently by the legislature, are designed to strengthen the fundamental structure of the state's financial institutions, raise the minimum capitalization, provide restriction on loans, set up a stockholders liability reserve fund, authorize the appointment of a bank analyst and liquidators, and give more power to the comptroller and his examiners to keep in close touch with the financial condition of trust companies and banks, and insist upon greater protection to depositors.

The duties and responsibilities of directors and officers are made more stringent by the revised laws which also clearly define limitations on the character of investments and provide inflexible regulations on payment of dividends, keeping capital intact and building up reserve and surplus. The minimum capital of banking companies is raised to \$25,000. A restriction on loans that has not existed heretofore is also provided.

\$75,000 Packing Plant Extension

The Florida East Coast Preserving Company, Jacksonville, will soon call for bids to construct a \$75,000 addition to its plant, according to C. E. Muller, industrial secretary of the Jacksonville Chamber of Commerce. This is the second plant expansion since the company established its plant in Jacksonville, and marks the eleventh expansion of Jacksonville industries within the past 15 months, it is said. The new exten-

sion is being made to permit the company to pack grapefruit hearts and grapefruit juice, in addition to its other Florida products, and will have a capacity of 75,000 cases annually. The company was recently authorized to increase its capital stock \$250,000.

500,000-Gallon Filtration Plant

Rio Grande City, Tex.—The Central Power and Light Company, San Antonio, has awarded contract to L. S. Valley & Co., Houston, for constructing a filtration plant here of 500,000 gallons daily capacity. Contract for filter equipment was awarded to the International Filter Co., Chicago. The plant will be of brick and concrete, having been designed by Hawley & Freese, Dallas. When in operation, it will have a 5-day storage supply in a preliminary settling basin; a 50,000-gallon clear water supply under ground and a similar supply in an overhead tank. In addition to filters and water treating apparatus, the company will install a new low lift pump at the river bank enclosed in a concrete house and situated above high water mark for protection against flood waters. A high lift pump house will be erected at the water plant and equipped with duplicate pumps, either of which will be capable of supplying the city and Fort Ringgold adjoining.

New Finance Company Formed

The Southern Corporation, recently organized under the laws of Delaware to trade in and hold stocks and to underwrite new issues of securities, is designed mainly to supplement existing facilities in the South, although not restricted thereto. It may promote and finance various businesses and enterprises of any kind and description. Shortly after its organization, it announced that \$4,000,000 had been received by it, including the proceeds from the sale of 300,000 shares of preferred stock and 100,000 shares of common. The company has an authorized capital of 750,000 shares. W. W. Lanahan & Company of Baltimore are bankers for the company. H. J. Adair is the president.

The directors are as follows: John W. Hanes, C. D. Barney & Company; Robert M. Hanes, Vice-President, Wachovia Bank & Trust Company, Winston-Salem, N. C.; J. Edward Johnston, Baltimore, Md.; W. W. Lanahan, W. W. Lanahan & Company, Baltimore, Md.; R. S. Reynolds, President, Selected Industries, 65 Broadway, New York City; C. K. Reynolds, Vice-President, United States Foil Company, New York; Edward S. Perot, Jr., President, Perot, Adair & Company, Inc., Washington, D. C.; Herbert J. Adair, president of the corporation.

Three Lines for Gulf, Mobile & Northern

Washington, D. C.—Authority has been granted the Gulf, Mobile & Northern Railroad Co., by the Interstate Commerce Commission, to acquire the Meridian & Memphis Railway, the Jackson & Eastern Railway and the Birmingham & Northwestern Railway. The Meridian & Memphis extends from Union on the Gulf, Mobile & Northern to Meridian, Miss., a distance of 32 miles, while the Jackson & Eastern is a 72-mile line extending from a connection with the Gulf, Mobile & Northern to Jackson, Miss. The Birmingham line extends from Jackson to Dyersburg, Tenn., a distance of 49 miles. These lines are now controlled by the Gulf, Mobile & Northern through stock ownership, but the latter desires unification in order to effect economies in operation, although it is said the principal benefit will be the strengthening of the credit of the Gulf, Mobile & Northern by affording the necessary asset basis for a bond issue to secure funds with which to reimburse its treasury for capital expenditures on the properties acquired.

\$1,000,000 Compress Deal

Houston, Tex.—Properties of the Magnolia Compress & Warehouse Company on the Houston ship channel have been acquired by the Terminal Compress & Warehouse Co., a new organization to be incorporated with a capital stock of \$200,000 and of which J. V. Scott is president. It is understood the deal involves about \$1,000,000, the properties embracing 15 acres fronting 1600 feet on the ship channel and several fireproof buildings including a 5-story structure. The plant has a total of 670,000 square feet under cover, with a storage capacity of 100,000 bales. Two high density compresses have a capacity of 20,000 bales every 20 hours. There are trackage facilities for 100 cars.

\$400,000 Courthouse Bonds

Princeton, W. Va.—The Mercer County Court opens bids August 12 for the purchase of \$400,000 courthouse and jail bonds and has ordered the use of the Memorial Building for court purposes until a new building is erected. Plans and specifications for a new structure are being prepared by A. B. Mahood, Bluefield, W. Va.

Buys Oil-Electric Locomotives

The Illinois Central Railroad Company has ordered five 600-horsepower oil-electric locomotives from the Ingersoll-Rand Company, New York City, and the General Electric Company, Schenectady, N. Y.

The Greater Wastes

The Greater Wastes are the wastes of *mind*, not of matter—wastes of mental energy rather than in material things. Fear, doubt, uncertainty, indecision, procrastination are the unlicensed robbers in every mental territory. But the greatest mental waster of them all is *worry*.

These greater wastes *seem* greater in Business because, of all human activities, Business presents the closer, more visual, and more material check-up.

While *Modern Accountancy* is no cure-all for the *lack* of mind—it *is* a stop-cock for these greater mental wastes. Its enlightened perception of the practical meaning of facts and figures—its orderly application of System and Method in Management, the assurance of its Detailed Audit, the guide of its Budget, its light on Costs—and, above all, the security of its Control, are lessening every day the *greater wastes*.

ERNST & ERNST

ACCOUNTANTS AND AUDITORS
SYSTEM SERVICE

NEW YORK
PHILADELPHIA
BOSTON
PROVIDENCE
BALTIMORE
RICHMOND
WINSTON-SALEM
WASHINGTON
BUFFALO
ROCHESTER

PITTSBURGH
WHEELING
ERIE
ATLANTA
MIAMI
TAMPA
CINCINNATI
DAYTON
LOUISVILLE
HUNTINGTON

CLEVELAND
AKRON
CANTON
COLUMBUS
YOUNGSTOWN
TOLEDO
ST. LOUIS
MEMPHIS
KANSAS CITY
OMAHA
DENVER

CHICAGO
MILWAUKEE
MINNEAPOLIS
ST. PAUL
INDIANAPOLIS
FORT WAYNE
DAVENPORT
DETROIT
GRAND RAPIDS
KALAMAZOO

NEW ORLEANS
JACKSON
DALLAS
FORT WORTH
HOUSTON
SAN ANTONIO
WACO
SAN FRANCISCO
LOS ANGELES
SEATTLE

FINANCIAL NEWS

Bond Issues Proposed

Ala., Alabama City—Improvement—City. L. H. Herndon, Clk., receives bids Aug. 6 for \$100,000 6% bonds. 7-11

Ala., Dothan—City, I. B. Scarborough, Clk., receives bids Aug. 5 for \$80,000, not to exceed 6% bonds; \$38,000, general obligation; \$22,000, water and sewer extension. 7-11

Ala., Mobile—Road, Bridge—Mobile County Bd. of Revenue and Road Commrs., E. C. Doody, Clk., receives bids Aug. 12 for \$1,500,000, \$1,000 denom. not to exceed 5% bonds. 6-13

Ala., Mobile—School—City, S. H. Hendrick, Clk., and Mobile County, voted \$500,000 bonds; W. C. Griggs, School Supt. 6-13

Ark., Hot Springs—Sewer—City, A. T. Davis, Atty., plans \$300,000 bond election. 7-18

Ark., Little Rock—City, Pat Robinson, Mayor, votes Aug. 19 on \$2,602,500 bonds: \$225,000, street; \$50,000, street clearing equipment; \$115,000, garbage incinerator; \$200,000, airport; \$400,000, civic center; \$900,000, auditorium; \$350,000, park development; \$300,000, fire dept. equipment; \$55,000, hospital annex; \$7,500, street lighting system. 7-18

Fla., Jacksonville—City Comm., M. W. Bishop, Sec., receives bids July 29 for \$193,000, 4½% bonds; \$1,000 denom. bonds; \$143,000, street; \$50,000, sidewalk. 7-11

Fla., Key West—Refunding—Monroe County Commrs., Ross C. Sawyer, Clk., receive bids Aug. 8 for \$200,000 6% \$1000 denom. bonds. 7-11

Fla., Miami Beach—City, C. W. Tomlinson, Clk., receives bids Aug. 7, for \$344,000 bonds to purchase Flamingo Park and extend sanitary sewers in Beach View sub-division. 6-27

Fla., Orlando—Courthouse Refunding—Orange County Commrs., B. M. Robinson, Clk., receive bids Aug. 6 for \$250,000, 5%, \$1,000 denom. bonds. 7-11

Ky., Barbourville—Road—Knox County, J. D. Martin, County Judge, receives bids Aug. 7 for \$100,000 bonds. 6-6

La., Atlanta—Atlanta School Dist., Winn Parish, voted \$50,000 bonds. 6-6

La., Monroe—Road—Ouachita County, Sub-Road Dist. No. 3, Ward 1, votes Aug. 20 on \$250,000 bonds. 6-6

La., Napoleonville—Assumption Parish Police Jury, F. J. Rodrigue, Clk., receives bids Aug. 13 for \$30,000 \$500 denom. not to exceed 6% Road Dist. No. 4 bonds. 6-6

La., Opelousas—St. Landry Parish School Bd., W. B. Prescott, Supt., receives bids Aug. 15 for \$70,000 \$1000 denom. not to exceed 6% Lawtell School Dist. No. 2 bonds. 6-6

La., Winnfield—Winn Parish School Bd., D. E. Sikes, Sec., receives bids Aug. 15 for \$50,000 \$1000 denom. not to exceed 6% Atlanta School Dist. bonds. 6-6

Md., Brunswick—Street—Town, C. A. Orrison, Mayor, votes Aug. 5 on \$20,000 bonds. 6-6

Miss., Bay Springs—Bd. of Trustees, Bay Springs Consolidated School Dist., H. H. Stringer, Sec., receives bids Aug. 5 for \$20,000, not to exceed 6% bonds. 6-6

Miss., Corinth—Road—Alcorn County Chancery Court, Amos Bradley, Pres., receives bids Aug. 6 for \$200,000 bonds. 6-6

Miss., Eupora—City, Mayor and Bd. of Aldermen, receive bids Aug. 5 for \$12,000, 6% Deep Water Well bonds. 6-6

Miss., Hattiesburg—City, W. S. F. Tatum, Mayor, receives bids Aug. 1 for \$250,000 of \$750,000 water and sewer bonds; Thomas H. Allen, Consult. Engr., Memphis. 6-6

Miss., Hattiesburg—City, W. S. F. Tatum, Mayor, voted \$750,000 bonds; \$450,000, water; \$300,000, sewer. 6-6

Miss., Yazoo City—Yazoo County Bd. of Suprvs., F. J. Love, Clk., receives bids Aug. 5 for \$10,000 Benton Consolidated School Dist. bonds. 7-11, under Miss., Benton. 6-6

Miss., Yazoo City—Yazoo County Bd. of Suprvs., F. J. Love, Clk., receives bids Aug. 5 for \$60,000, Anding School Dist. bonds. 6-6

Mo., Fredericktown—Sewer—City, S. F. Deneke, Clk., receives bids Aug. 15 for \$65,000 bonds. 6-13

Mo., Kirkwood—City, R. L. Jacobsmeier, Mayor, voted \$50,000 bonds for additional fire dept. 6-27

Mo., Marcelline—School—City voted \$90,000 bonds. 6-27

Mo., Ozark—Water—City voted \$10,000 bonds; A. C. Adams, Engr. 6-6

Mo., St. Joseph—School Dist. of St. Joseph, A. L. Loving, Sec. and Bus. Mgr., receives bids Aug. 10 for \$500,000, 4% bonds. 6-6

N. C., High Point—City, Ed L. Ragan, Sec., receives bids July 29 for \$828,000 6% \$1000 denom. bond anticipation loan notes. 6-6

N. C., Shelby—Shelby Special School Dist., votes July 30 on \$58,000 bonds. 6-6

Okla., Claremore—City, J. M. York, Clk., voted \$54,000 sewer outfall system bonds. 6-6

Okla., Clinton—City, W. A. Shouse, Clk., receives bids July 30 for \$615,000, \$1,000 denom. not to exceed 6% bonds; \$600,000, water; \$15,000, fire fighting equipment. 6-27

Okla., Clinton—City, McLain Rogers, Mayor, voted \$615,000 bonds: \$600,000, water; \$15,000, fire equipment; defeated \$75,000 bonds: \$50,000, airport; \$25,000, park. 6-27

Okla., Marshall—School—City plans voting soon on \$35,000 bonds. 6-27

Okla., Texhoma—City votes July 30 on \$83,400 bonds: \$58,400, sewer system and disposal plant; \$25,000, city hall and fire fighting unit. 6-27

Okla., Tulsa—Street—City, Dan Patton, Mayor, receives bids July 30 for \$1,250,000 bonds; K. R. Tels, City Engr. 7-4

Okla., Wewoka—City voted \$15,000 bonds for airport site, improvements and equipment. 7-4

South Carolina—Capital Highway Dist. Commrs., B. W. Crouch, Chmn., Saluda, plan issuing \$500,000 additional bonds to complete road system in dist. 6-27

S. C., Charleston—Refunding Sewerage—City, W. S. Smith, Treas., receives bids Aug. 1 for \$125,000 4½% bonds. 6-27

S. C., Columbia—Road—Richland County considering \$275,000 bond issue. 6-27

Tenn., Bristol—School—City, W. K. Carson, Treas., voted \$350,000 bonds. 6-13

Tenn., Brownsville—School—City, R. Y. Moses, Clk., receives bids July 31 for \$50,000, 5¼%, \$1,000, bonds. 7-4

Tenn., Brownsville—Haywood County votes Sept. 5 on \$500,000 bonds. 7-4

Tenn., Lebanon—Hospital—Wilson County votes Aug. 3 on \$100,000 bonds. 7-4

Tenn., London—Water, Sewer—City voted \$85,000 bonds. 7-4

Tenn., Memphis—City, D. C. Miller, Clk., voted \$3,650,000 bonds: \$200,000, Memphis General Hospital; \$300,000, land and building for fire dept.; \$950,000, sewer extension; \$850,000, streets, sewers, drainage, grade separation, etc.; \$1,350,000, school buildings; Will H. Fowler, City Engr. 7-4

Tenn., Ripley—Road—Lauderdale County Hard Roads Comm., W. Tucker, Jr., Sec., receives bids Aug. 6 for \$250,000, not to exceed 6% bonds. 7-4

Tex., Anahuac—Indebtedness—Chambers County votes July 27 on \$50,000 bonds. 6-27

Tex., Beaumont—Improvement—City, J. W. Anderson, Mgr., plans selling \$1,000,000, of \$4,890,000 bonds previously voted. 6-27

Tex., Beeville—Road—Bee County Commrs. Court called election for Aug. 24 on \$260,000 bonds. 6-27

Tex., Columbus—City Hall, Fire House—City defeated \$25,000 bond issue. 6-27

Tex., Dallas—City, John Harris, Finance Commr., plans selling \$1,205,000 20-year warrants. 6-27

Tex., Fluvanna—School—City voted \$50,000 bonds. 6-27

Tex., Grosvenor—Grosvenor School Dist. voted \$20,000 bonds. 6-27

Tex., Houston—Water—City, James B. House, Water Commr., plans \$1,500,000 bond election; H. L. Shaw, City Engr. 6-27

Tex., Houston—Bd. of Education, H. L. Mills, Bus. Mgr., receives bids Aug. 1 for \$931,000 Independent School Dist. bonds. 6-27

Tex., Humble—Water—City votes Aug. 3 on \$100,000 bonds. 6-27

Tex., Memphis—Road—Hall County, Precincts No. 3 and 4, vote Aug. 10 on \$350,000 bonds. 6-27

Tex., Midlothian—City, G. E. Cowan, Sec., voted \$65,000 bonds: \$45,000, sewer; \$20,000, water. 6-27

Tex., Newlin—Bd. of Education, G. E. Nelson, Sec., receives bids soon for \$12,000 Newlin Independent School Dist. bonds. 6-27

Tex., Pasadena—City, G. W. Conrad, Mayor, votes Aug. 19 on \$120,000 bonds: \$12,000, indebtedness; \$5,000, fire station; \$38,000, water system; \$45,000, sewer system. 6-27

Tex., Port Arthur—Paving—City Commrs., J. W. O'Neal, Mayor, plan calling \$1,000,000 bond election after Aug. 10. 6-27

Tex., Perryton—Road—Ochiltree County plans voting in Sept. on \$700,000 bonds. 6-27

Tex., San Antonio—School City, C. M. Chambers, Mayor, voted \$3,700,000 bonds; J. G. Hornberger, Pres. 7-4

Tex., San Antonio—School Bd., Los Angeles Heights Independent School Dist., Bexar County, G. L. F. Todd, Sec., rejected bids for \$250,000 5% bonds. 6-20

Tex., San Augustine—San Augustine County votes Aug. 17 on \$800,000 bonds: \$650,000, to take care of outstanding bonds; \$150,000, roads. 6-20

Tex., Springtown—School—City votes soon on \$10,000 bonds. 6-20

Tex., Stinnett—Road—Hutchinson County, H. M. Hood, County Judge, votes Aug. 10 on \$150,000 bonds. 6-20

Tex., Sweetwater—City, W. C. Bryan, Mayor, receives bids Aug. 19, tentative date, for \$750,000 bonds for street, water and sewer system improvement. 6-20

Tex., Tilden—Courthouse—McMullen County Commrs. plan \$25,000 bond election. 6-20

Va., Richmond—Tuckahoe School Dist., Henrico County, voted \$150,000 bonds. 7-18

W. Va., Charleston—Road—Kanawha County Court called election in Cabin Creek Dist., for Aug. 15 on \$550,000 bonds. 7-18

W. Va., Huntington—Road—Cabell County Court, R. S. Douthat, Clk., receives bids July 31 for \$288,000 5% \$1000 denom. Grant Road Dist. bonds. 6-27

W. Va., Princeton—Courthouse, Jail—Mercer County Court receives bids Aug. 12 for \$400,000 bonds. 6-27

W. Va., St. Marys—Pleasant County, Union Road Dist., votes Aug. 6 on \$60,000, \$500 denom., not to exceed 5% bonds; R. E. Griffin, Clk., County Commrs. Lately noted election July 5. 7-4

Bond Issues Sold

Ala., Birmingham—Courthouse—Jefferson County Bd. of Revenue, W. D. Bishop, Pres., sold \$250,000 bonds to Marx & Co., Birmingham. 6-27

Ala., Birmingham—Public Improvement—City, C. E. Armstrong, Comptroller, sold \$280,000, 5¼%, \$1,000 denom. bonds to Steiner Brothers, Birmingham, at \$280,896. 6-27

Ark., Conway—City sold \$35,000 paying bonds to Union Trust Co., Little Rock. 6-27

Ark., Lewisville—School Bd., D. W. Gladney, Sec., sold \$23,000, 6%, \$1,000 denom. Special School Dist. bonds to First National Bank, Lewisville, 101.25 and accrued interest. 7-4

Fla., Miami Beach—City, C. W. Tomlinson, Clk., sold \$148,000 bonds to First National Bank, Miami Beach: Bridge, water main extension, etc. 7-4

Fla., Miami—City Comm. authorized John W. Watson, Jr., City Atty., to draw contract for sale of \$1,500,000 6% anticipation revenue bond issue to F. S. Moseley & Co., Boston, Mass., for \$1,485,000. 7-4

Ga., Cohutta—Hardwick Bank & Trust Co., Dalton, Ga., purchased 6%, \$500 denom. Cohutta School Dist. bonds at \$15.150 and accrued interest. 7-4

Md., Cumberland—Hospital—City, Frank Billmeyer, Commr. of Finance and Revenue, sold \$125,000, 4½% bonds to Townsend Scott & Son, Baker, Watts & Co., and Nelson, Cook & Co., all Baltimore, at 98.89. 7-4

Miss., Natchez—Refunding—City, Lemuel P. Conner, Clk., sold \$47,500 5½% \$1,000 and \$500 denom. bonds to A. K. Tigrett & Co., Memphis, Tenn., par, accrued interest and \$203 premium. 6-27

Miss., Tupelo—Lee County Bd. of Suprvs., T. A. Jenkins, Pres., sold \$10,000 6% Shiloh Consolidated School Dist. bonds to Citizens State Bank, Tupelo, at par. 6-20

Miss., Yazoo City—Yazoo County Bd. of Suprvs., sold \$50,000 Sataratia Consolidated School Dist. bonds to Whitney-Central Trust & Savings Bank, New Orleans. 6-20

Mo., Independence—Road, Bridge—Jackson County, Harry A. Sturges, Treas., sold \$1,500,000, 4½% bonds at 99.41, to syndicate 6-20

(Continued on page 94)



A fairy tale

... made out of whole cloth

ONCE upon a time in a wonderful city where everybody was ever so much shrewder than everybody else, a particularly shrewd weaver of fabrics and just as shrewd a merchant conceived a brilliant idea.

"We will make and sell beautifully colored fabrics," they said, "and we'll guarantee that the colors will never fade." Lots of their competitors in this city were already doing that, they explained, but the really clever part of the idea was that "Only very wise, O so very wise and careful customers will be able to wash these fabrics without fading the colors. And everybody will want to buy them because we can sell these beautiful fabrics so

cheaply. Naturally, nobody would complain if the colors faded because that would be an admission of their stupidity and carelessness." Now, wasn't that a wonderfully smart, far-sighted idea?

So everybody was told about these wonderful fast-color fabrics absolutely guaranteed—O most absolutely! And everybody bought these beautiful fabrics because they were so cheap and, if you were a really smart person, the colors would never, never fade.

Of course the colors really did fade but people were afraid to complain for fear they would be called stupid because they could not do such a simple thing as wash fabrics without ruining the colors. But

after a while, the really bright people, who could do so many other really clever things but couldn't wash these fabrics even once without fading the colors, began to ask questions. They wrote articles and talked to other people. They set laboratories to testing the fastness of the colors. Then rumors began to fly about that the clever manufacturer and merchant were only hoaxing the people of the city. This persistent rumor, like many rumors, helped to make itself a fact and very soon these two worthies lost the confidence of the people.

* * *

The moral, of course, is—

Everybody gets more for their money in
FAST-DYED FABRICS

Pioneer American Vat Dye Manufacturers



E. I. DU PONT DE NEMOURS & COMPANY, INCORPORATED, DYESTUFFS DEPARTMENT, WILMINGTON, DELAWARE

FINANCIAL NEWS

(Continued from page 92)

composed of William R. Compton Co., First National Co., and Stix & Co., all St. Louis; Northern Trust Co., Chicago, Ill., and National City Co., New York. 7-4

Mo., Vandalia—Sewer—City, Martin Barrow, Clk., sold \$29,000, 5% bonds to Exchange Bank, Vandalia, \$500 premium. 6-27

Okla., Ponca City—Ponca City School Dist. sold \$27,000 5% bonds to Commerce Trust Co., Kansas City, Mo., at par.

Okla., Tecumseh — Pottawatomie County sold \$50,000 6% School Dist. bonds to Edgar Honnold, Oklahoma City, at par.

S. C., Columbia—Auditorium—Richland County Commrs., W. C. Thomas, Clk., sold \$300,000, 5% Columbia Township bonds to A. M. Law & Co., Spartanburg, and Harris, Ferber & Co., New York, at \$246 premium. 7-11

Tenn., Jackson—Road—Madison County Court sold \$100,000 of \$300,000 5% bonds to I. B. Tigrett & Co., Memphis, at par, accrued interest and \$1500 premium. 7-18

Tenn., Lebanon—Funding—Wilson County, E. S. Walker, Judge, sold \$300,000 5% bonds to Commerce Union Co., Nashville.

Tex., Levelland — Levelland Independent School Dist. sold \$50,000 5½% bonds to First National Bank, Levelland, at par.

Building and Loan Associations

S. C., Spartanburg—Equitable Building & Loan Assn., capital \$50,000, chartered; Leroy Moore, Pres., 702 Maple St.

Tex., Brady — Central Texas Building & Loan Assn., capital \$15,000,000, chartered; B. A. Hallum, Pres.; W. D. Crothers, Treas.; M. Graham, Sec.

New Financial Corporations

Fla., Sarasota—Palmer National Bank & Trust Co., capital \$100,000, organized; John B. Cleveland, Pres., Tampa; principal organizers are Potter Palmer and Honore Palmer estates.

Ky., Louisville—Banco Kentucky Co., capital and surplus \$50,000,000, organized; James B. Brown, 1 Alta Vista Rd., Pres.; John Stiles, Vi-P.; W. T. Zurschmiede, Sec.-Treas.; affiliated with National Bank of Kentucky, Jas. B. Brown, Pres., and Louisville Trust Co., John Stiles, Pres.

La., New Orleans—Central Finance Co., Inc., capital \$250,000, chartered; Louis Lob, Pres., Hibernia Bldg.

La., Shreveport—Hearne Investment Corp., capital \$75,000, chartered; George M. Hearne, Pres., Texas and McNeil Sts.

Md., Baltimore — Diversified Aviation Trust, Inc., Munsey Bldg., chartered; W. Edwin Crouch.

Mo., Kansas City—Arthur S. Bird & Co., Inc., capital \$200,000, chartered; Arthur S. Bird, 836 Huntington Rd.

Mo., St. Louis—Eneswood Investment Co., capital \$25,000, chartered; Neal S. Wood, 6170 Pershing Blvd.

Okla., McAlester—Tom Hale and associates granted charter for bank with \$50,000 capital.

Alabama Trust and Savings Bank, J. F. Koonce, Pres., and Bank of East Florence, T. J. Phillips, Pres., both Florence, Ala., consolidated.

Almours Securities, Inc., Tampa, Fla., purchased First National Bank of Lakeland, Fla., and will organize new national bank to be known as Lakeland National Bank.

Highlands Securities Corp., Sebring, Fla., increased capital, \$1,250,000 to \$1,500,000.

Solar Securities Co., Miami, Fla., increased capital, \$100,000 to \$250,000.

American National Bank, Frank D. Lawrence, Pres., purchased assets of First National Bank, both Portsmouth, Va.

Bank of Phoebus, S. C., Reese, Pres., Phoebus, Va., increases capital, \$50,000 to \$100,000, and adds trust privileges.

Surety Home Building & Loan Assn., Henry Pfeifle, Pres., 4445 Gravois Ave., St. Louis, Mo., plans increasing capital, \$250,000 to \$500,000.

First National Bank, W. H. Hunt, Pres., and National Bank of Granville, E. T. White, Pres., both Oxford, N. C., consolidated as First National Bank of Granville, \$200,000 capital.

Book Review

Aviation: Its Commercial and Financial Aspects, by Richard Rea Bennett, Assistant Sunday Editor, The Sun, Baltimore, Ronald Press Co., New York. Cloth. 137 Pages and 4 Illustrations. Price \$3.00.

The purpose of the book, according to Mr. Bennett in his preface, is to outline and explain financial and commercial problems of aviation in which the layman, banker, engineer, scientist, student and others are interested. The book presents a critical survey of the present status of American aviation and indicates lines along which its development will proceed. The author shows how present policies of the Government, with the popular interest in aviation, have achieved a rapid development in aeronautics within a few years, pointing out that the airplane today is merely the adaptation of a war instrument to commercial purposes. The truly commercial airplane is still in process of development, he observes, and he finds a close parallel between the history of railroad development and that of aviation.

Votes \$3,650,000 Bonds

Memphis, Tenn.—Bonds in the amount of \$3,650,000 have been voted by the City of Memphis for the following purposes: Additions, improvements and equipment for General Hospital, \$200,000; purchase sites and erect and equip buildings for Fire Department, \$300,000; sewer extensions, \$100,000 and \$850,000, respectively, authorized by separate acts; streets, sewers, drainage and grade separation, \$850,000, and for providing grounds and constructing school buildings, \$1,350,000.

\$800,000 Bond Election

San Augustine, Tex.—An election has been ordered for August 17, by the San Augustine County Court, on a road bond issue of \$800,000, a portion to be used for taking care of outstanding bonds and \$150,000 to be set aside for road maintenance.

NOW READY

May-June issue of the American Bank Reporter DESK EDITION

Convenient for Desk Use and to carry with you

Issued Twice a Year

Printed on Bible Paper. Size 6x3½ Inches
Red Leather Binding

Contains a complete list of Banks, Bankers, Savings Banks, Trust Companies, Investment, Acceptance and Discount Corporations, in the United States and Canada, with names of Officers, Capital, Surplus, Undivided Profits, Loans, Deposits, Principal Correspondents, List of Foreign Banks, etc.

Price \$8.00 delivered

Lowest Priced Bank Directory on the Market

Steurer Publishing Co.
149th St., cor. Bergen Ave.
New York City



FREE

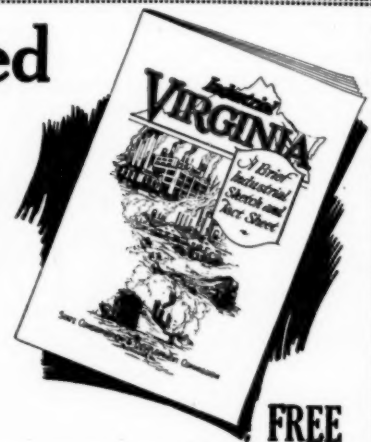
Two Books You Need

The booklet on the left is a comprehensive guide for the Tourist in Virginia. Illustrations of hundreds of places of interest. Maps to help you plan your trip. Make your trip pleasurable and profitable.

The booklet on the right will interest every business man. Briefly it gives a glimpse of the marvellous progress that Virginia is making in Industry. Learn why there is \$275,000,000 worth of new construction in the State.

These two booklets are free.

State Commission on Conservation
and Development
State Office Building Richmond, Va.



FREE

CONDENSED STATEMENT OF CONDITION
THE FIRST NATIONAL BANK
 OF ST. PETERSBURG, FLORIDA

AT CLOSE OF BUSINESS JUNE 29, 1929

RESOURCES

Loans and Discounts.....	\$4,454,715.77
Overdrafts.....	229.56
Banking House Equity.....	540,325.96
Furniture and Fixtures.....	80,421.78
Other Real Estate Owned.....	42,096.00
U. S. Bonds and Securities.....	658,341.05
Other Salable Bonds.....	1,503,517.43
Customers Liability under Letters of Credit.....	12,030.00
Cash and Due from Banks.....	1,345,630.96

\$8,637,308.51

LIABILITIES

Capital Stock.....	\$ 600,000.00
Surplus and Undivided Profits.....	615,125.04
Reserved for Taxes.....	7,444.80
Dividends Unpaid.....	24,080.00
Agreement to Repurchase Liberty Bonds Sold.....	247,024.65
Letters of Credit.....	12,030.00
Deposits.....	7,131,604.02

\$8,637,308.51

COLLECTIONS PROMPTLY MADE ON ALL ACCESSIBLE POINTS AT MODERATE RATES
 WE SELL TRAVELERS' CHEQUES AND DRAFTS ON ALL FOREIGN COUNTRIES
 YOUR ACCOUNT INVITED EFFICIENT SERVICE
 COURTEOUS ATTENTION

OFFICERS

Dr. Louis A. Blize.....	Chairman of the Board
R. J. McCutcheon, Jr.....	President
Max A. H. Fitz.....	Vice Chairman of the Board and Vice President
C. W. Springstead.....	Vice President
A. F. Miller, Jr.....	Cashier
L. M. McGouirk.....	Asst. Cashier
Ralph R. Dewberry.....	Asst. Cashier
B. R. Colley.....	Asst. Cashier
C. R. Cox.....	Asst. Cashier
W. R. Black.....	Trust Officer
Thomas Dunn.....	Asst. Trust Officer
Stanley B. Reid.....	Auditor

Does Your Banking Connection

meet all of your
business requirements?

Write us

BALTIMORE COMMERCIAL BANK

GWYNN CROWTHER, President

26 South Street, Baltimore, Md.

Capital and Surplus \$1,350,000.00 Member Federal Reserve System

**Corporate Financing
Arranged**

Mergers and Reorganizations Effected

With connections seeking extensive outlets in constructive financing in the South, this announcement of facilities now available to Southern business houses embraces a most cordial invitation to investigate the solutions offered in response to capital needs. Capital furnished for both new and old enterprises.

WILLIAM AKERS

Long Distance Local Phone

Walnut 3186

1314-15 Atlanta Trust Co. Bldg.
ATLANTA, GEORGIA

YOUR BUSINESS SOLICITED

Particular attention given to financing
SOUTHERN PROPERTIES



Special Deposits
Office Building Loans
Trust Facilities
High grade Bonds

**THE CENTURY TRUST COMPANY
of Baltimore**

Capital \$1,000,000

Surplus \$1,700,000

**Taylor,
Wilson
& Co. Inc.**
INVESTMENT SECURITIES

WE BUY

MUNICIPAL BONDS

Public officials are invited to avail themselves of our facilities for preparation of legal details.

Your inquiry receives prompt attention.
701-2 Dixie Terminal Bldg. CINCINNATI

JOHN NUVEEN & CO.

First National Bank Building

CHICAGO

We purchase SCHOOL, COUNTY and MUNICIPAL BONDS. Southern Municipal Bonds a Specialty.

Write us if you have bonds for sale.



AT YOUR SERVICE IN BALTIMORE

**MARYLAND
TRUST COMPANY**

Northwest Corner
Calvert and Redwood Streets

MEMBER FEDERAL RESERVE SYSTEM



Only a month away

IN little more than a month, the opening speech will be made at the Chattanooga Convention of the National Association of Power Engineers. Manufacturers of power and mechanical equipment who fail to exhibit will miss the biggest engineering event ever held in the South.

Southern manufacturers are offered an opportunity to place their products be-

fore the 19,000 engineers who compose the N.A.P.E. at a convention which is attracting unusual interest among Southern engineers.

Exhibit space is still available at the low cost of \$75. Floor plans and application blanks can be secured from Frank N. Chapman, secretary of the National Exhibitors Assn., c/o A. Leschen & Sons Rope Co., 5909 Kennerly Ave., St. Louis.

The N. A. P. E. CONVENTION

Chattanooga, Tenn., Sept. 9-13

HAVE YOU BONDS FOR SALE?
WE BUY ALL CLASSES OF MUNICIPAL BONDS,
INCLUDING CITY, COUNTY, SCHOOL,
PAVING, ROAD AND DRAINAGE

The Hanchett Bond Co. Inc.
39 SOUTH LA SALLE ST., CHICAGO

Municipalities
Corporations
Railroads

Financed

MARX & CO. BIRMINGHAM
ALABAMA

THE ROBINSON - HUMPHREY COMPANY
MUNICIPAL AND CORPORATION BONDS
Established 1894
ATLANTA, GA.

We Underwrite MUNICIPAL BONDS in States of
GEORGIA and SOUTH CAROLINA

We Buy Bonds
City, County, School and Road from
Municipalities and Contractors
WRITE
THE PROVIDENT SAVINGS BANK & TRUST CO.
CINCINNATI OHIO

*The origin and Development of the
BAROMETER and ALTIMETER*

**To Those Who Must
Have Accurate Data on
AIR PRESSURE**

This published work on the origin and development of the barometer and altimeter belongs in the technical library of every scientist, engineer, school and industrial plant where atmospheric pressure influences production or operation. It explains the famous Paulin System of pressure gauging, which sets a new standard of accuracy and sensitivity. Mail this coupon for your copy, today.

free

Educational Division, The American Paulin System, Inc.
1220 Maple Avenue, Los Angeles, Cal. MR-7-25

Please send me a copy of your recent publication "Origin and Development of the Barometer and Altimeter."

Name

Address

THE OSCAR T. SMITH & SON CO.
Manufacturing
BANK AND COMMERCIAL STATIONERS
407-9-11 E. Saratoga Street
BALTIMORE, MD.

CHARACTER **QUALITY**
— SERVICE —

SEABOARD AIR LINE RAILWAY COMPANY PLAN

relating to

Five Per Cent. Adjustment Mortgage Gold Bonds, due 1949

Dated May 27, 1929

Deposits of Adjustment Bonds under the Plan at the close of business July 15, 1929—the period fixed for the receipt of such deposits—plus additional bonds since offered for deposit, aggregate \$14,534,000.

These deposits are considerably in excess of 50% of the total of \$25,000,000 of these bonds outstanding and thus indicate that the owners of a substantial majority of the entire issue of these bonds desire to proceed with the consummation of the Plan.

However, as stated in the Plan, its advantages cannot be fully realized unless the holders of **all** of the Adjustment Bonds assent thereto by depositing their bonds under the Plan, and neither the Company nor the Adjustment Bondholders' Committee are in any way obligated to declare the Plan operative unless the holders of **substantially all** of the Adjustment Bonds shall assent thereto.

Both the Company and the Adjustment Bondholders' Committee regard the above deposits as altogether inadequate and will be obliged to abandon their effort to consummate the Plan unless there shall be very substantial additions to these deposits.

In order to afford owners of undeposited Adjustment Bonds a further opportunity to join with the majority who have already deposited their bonds, the period for the deposit of Adjustment Bonds has been extended to and including **July 31, 1929**.

The holders of a substantial majority of both the Company's Preferred and Common stocks have already indicated their desire to proceed with the consummation of the Plan by returning proxies in excess of the amounts requisite for proposed stockholders' action. The meeting to consider such action will be adjourned to August 2, 1929, until it can be determined whether the holders of undeposited Adjustment Bonds are prepared to cooperate in the consummation of the Plan by depositing their bonds, or whether the Plan must be abandoned.

The Plan seems so manifestly advantageous to Adjustment Bondholders that it is believed refusal by any bondholder to deposit his bonds must be due to incomplete information or misunderstanding of the Plan. The Committee will welcome inquiries from all holders of undeposited bonds and will be glad to supply any information desired. Such inquiries should be addressed to Edmund Burke, Jr., Secretary, 63 Wall St., New York City.

In view of the difficulties to be faced if it should prove necessary to abandon the Plan and in the belief that its consummation is greatly to the benefit both of the Company and of all Adjustment Bondholders assenting thereto, the Adjustment Bondholders' Committee strongly urge the owners of all undeposited bonds promptly to deposit their bonds with The National Park Bank of New York, 214 Broadway, Depositary.

SEABOARD AIR LINE RAILWAY COMPANY,

By Robt. L. Nutt,

Chairman of the Board of Directors

July 17, 1929.

ADJUSTMENT BONDHOLDERS' COMMITTEE

CHARLES S. McCAIN, Chairman
President, The National Park Bank
of New York

NELSON I. ASIEL
Asiel & Co.

RALPH H. BOLLARD
Dillon, Read & Co.

FRED G. BOYCE, Jr.
Vice-President, Mercantile Trust Company
of Baltimore

JAMES P. BUTLER
President, The Canal Bank & Trust
Company, New Orleans

WALTER W. COLPITTS
Coverdale & Colpitts

NORMAN H. DAVIS
New York

ROBERT FOSTER, Jr.
Vice-President, The Continental Trust
Company, Baltimore

COTTON & FRANKLIN, Counsel
EDMUND BURKE, Jr., Secretary
63 Wall Street, New York City

AUGUST HECKSCHER
New York

E. C. JAMESON
President, Globe & Rutgers Fire
Insurance Company

HUGH G. M. KELLEHER
Joseph Walker & Sons

WM. FULTON KURTZ
President, Colonial Trust Company
Philadelphia

MILLS B. LANE
Chairman, The Citizens and Southern
National Bank, Savannah

JAMES R. LEAVELL
Executive Vice-President
Confidential Illinois Company, Chicago

V. EVERIT MACY
New York

ROBERT F. MADDOX
Chairman of the Board
The Atlanta and Lowry
National Bank, Atlanta

THOS. B. McADAMS
Executive Manager, State-Planters Bank
and Trust Company, Richmond

L. PARKER McKINLEY
McKinley & Company

EDWIN G. MERRILL
President, Bank of New York
and Trust Company

WALTER T. ROSEN
Ladenburg, Thalmann & Co.

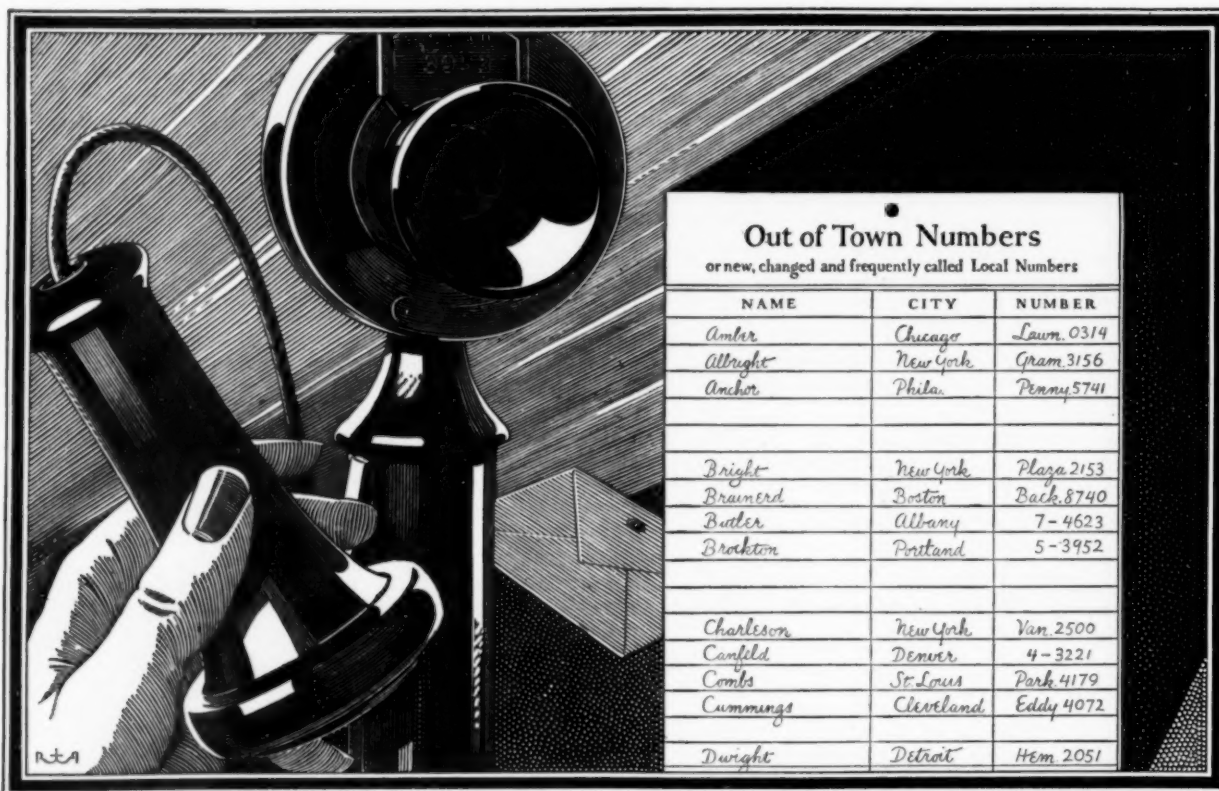
CHARLES E. SPENCER, JR.
Vice-President, First National Bank
of Boston

OSCAR WELLS
President, First National Bank
Birmingham

SAMUEL W. WHITE
President, The National Republic
Company, Chicago

THE NATIONAL PARK BANK OF NEW YORK
No. 214 Broadway, New York City
New York Depositary

Calling by Number takes less Time...



Out of Town Numbers
or new, changed and frequently called Local Numbers

NAME	CITY	NUMBER
Amler	Chicago	Lawn 0314
Albright	New York	Gram 3156
Anchor	Phila.	Penny 5741
Bright	New York	Plaza 2153
Bramerd	Boston	Back 8740
Butler	Albany	7-4623
Brakton	Portland	5-3952
Charleson	New York	Van 2500
Canfield	Denver	4-3221
Combs	St. Louis	Park 4179
Cummings	Cleveland	Eddy 4072
Dwight	Detroit	HEm 2051

IF YOU know the numbers on your out of town calls you can get many of them about as quickly as local calls. It is worth while keeping a list of numbers you frequently use. If you do not know them, "Information" will get them for you.

If there are a lot of them, write to the nearest Bell Telephone Business Office and ask them to make out the list for you.

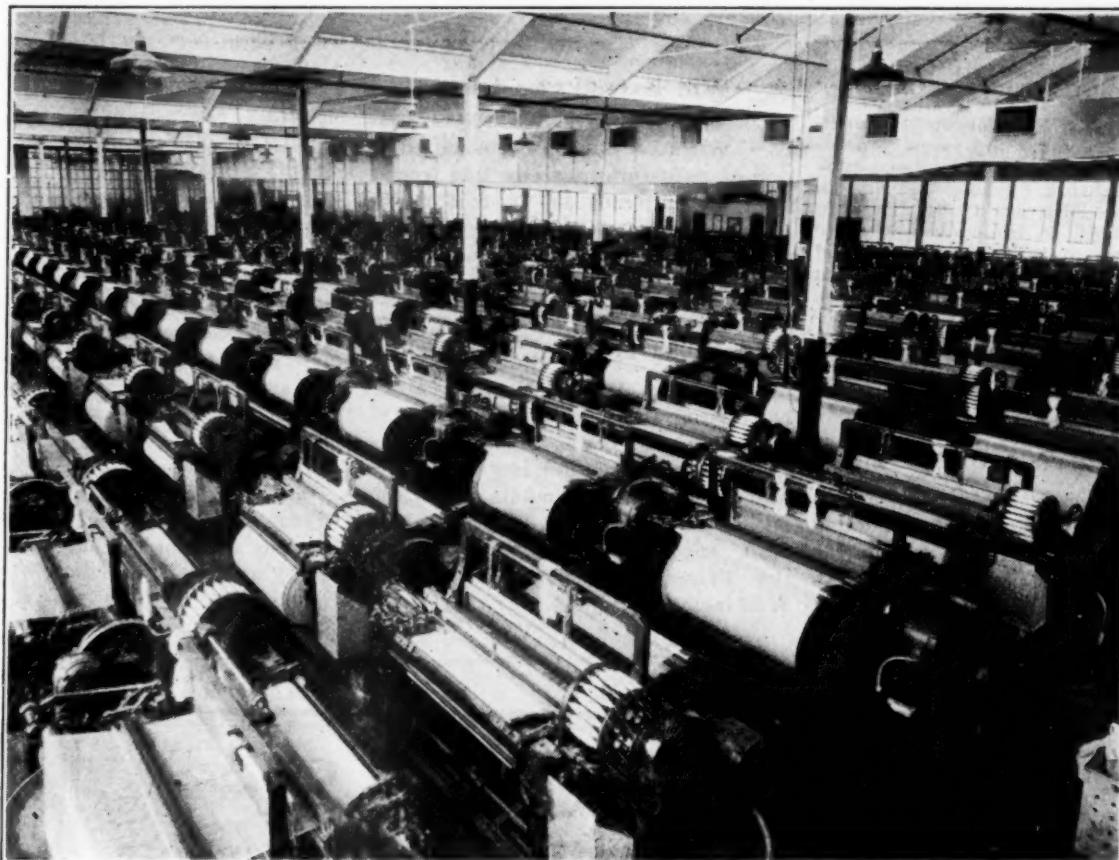
If you want some one in a hurry, the telephone number is as important as

the street address. That is why many concerns print their telephone numbers on their letterheads and send their telephone numbers to all of their customers, asking them to telephone when some service or shipment is wanted in a rush.

Making calls to other cities by number, and encouraging those dealing with you to call you by number, will further speed the growth of business by telephone. Bell Telephone Service is *Convenient . . . Economical . . . Universal.*



New 12,000 Spindle Textile Mill of International Shoe Co. Now Operating in Arkansas



ARKANSAS and the Mid-South area have every reason to feel proud of the great new textile mill that has been established at Malvern, Arkansas, by International Shoe Company, one of the largest producers of footwear in the world.

Formally dedicated with officials of the International Shoe Company and civic and business leaders from many states in attendance, this splendid new manufacturing plant is now in full operation, adding another important industrial institution to the Mid-South's fast-growing list.

A Million-Dollar Investment

The cost of plant and equipment approximates one million dollars. Ground was broken for the construction of the first unit a year ago, and rapid progress permitted the beginning of manufacturing operations within the twelve-month period.

The main structure is 900 feet long and 110 feet wide. Of daylight construction, with sawtooth roof, the building represents the most modern and efficient ideas in industrial construction. Arrangement of the machinery permits every process of manufacture to fit in with the succeeding one, the cotton going in at one end of the building and coming out as cloth at the opposite end.

Manufactures Shoe Linings

The entire plant is devoted exclusively to the manufacture of shoe linings, which will be used in lining

a large portion of the thousands of pairs of footwear manufactured daily by International Shoe Company.

Approximately 7,000 bales of cotton will be used annually, from which 7,000,000 yards of drill and duck will be made.

Tribute to Interconnected Power

One of the principal factors influencing the selection of Malvern as the location of this textile mill, was the availability of interconnected electric power, assuring an uninterrupted and ample supply of power. This location is in the heart of the cotton territory, the three Mid-South states producing 3,000,000 bales annually.

The great Mid-South Area, composed of Arkansas, Mississippi and Louisiana, offers unusual advantages to industries. Among the many attractive features are: Tax exemption for textile mills.... Low taxes to all other industries.... Long daylight hours.... Low living costs.... Low building costs.... Ideal climate.... A plentiful supply of intelligent Anglo-Saxon labor.... A great and growing market.... PLUS the advantages of Interconnected Electric Power.

Specific information regarding any portion of the Mid-South will be gladly supplied by Arkansas Power & Light Company of Pine Bluff, Arkansas; Mississippi Power & Light Company of Jackson, Mississippi; or Louisiana Power & Light Company of Algiers, Louisiana.

Encouraging Use of By Products From Farm and Forest Waste

In inviting attention to the June issue of the Missouri Pacific agricultural bulletin printed on paper made from yellow pine by the International Paper Mill at Bastrop, La., John W. Wilkinson, agricultural editor, Missouri Pacific Lines, St. Louis, writes:

"We are trying to encourage the utilization of waste farm and forestry products in every way possible. Some time in the near future we hope to print an edition of the Missouri Pacific Bulletin on cornstalk paper, which has a white finish, instead of the yellow tint found in the yellow pine kraft paper used in the present issue. You, perhaps, will be glad to learn that the Cornstalks Products Company have advised me that they are now making a very satisfactory paper out of bagasse, the waste product from sugar cane."

Plans Florida Newspaper Chain

The North American Company, capitalized at \$1,000,000, has been incorporated in Florida for the purpose of acquiring and operating a chain of newspapers in that state, according to R. H. Gore, of

the Gore Publishing Company and the R. H. Gore Company of Chicago, one of the incorporators. Officers of the company include A. E. Forrest, Redlands, Cal., chairman of the board; Mr. Gore, president, and H. F. Brown, Chicago, secretary and treasurer.

Will Extend Gas Lines

Lubbock, Tex.—The West Texas Gas Co., Amarillo, will soon begin an extension of its natural gas pipe line from a point on the trunk line near Kress to Silverton, Quitaque and Turkey, serving these towns with fuel as well as a number of farmers along the route.

\$740,000 Hospital Contract

Washington, D. C.—General contract has been awarded to the W. P. Rose Co., Greensboro, N. C., at \$740,000, by the Department of the Interior to erect a medical and surgical building, with connecting corridors, at St. Elizabeth's Hospital, Anacostia. Plans were made by the United States Veterans Bureau, Washington.

\$600,000 Community Center Project

San Antonio, Tex.—The Realty Finance Co., Edward Phillips, president, is having plans prepared by Homer Irving Messick, San Antonio, for a building project here, to be known as La Alameda community center to cost about \$600,000. The project will embrace two city blocks and will involve the construction of one and two-story buildings to provide 81 stores, market and grocery space, with parking accommodations for 600 cars. Sixteen apartments will be provided over the large market building which will contain a balcony for shops and offices. The structures will be of reinforced concrete and hollow tile, with plate glass fronts, special electric lighting and ornamental iron grille work. Similar projects are expected to be undertaken by the company in other cities.

Bids will be opened August 6 by the Orange County Board of Commissioners, Orlando, Fla., for the purchase of \$250,000 5 per cent courthouse refunding bonds.



PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close August 20, 1929.

SEALED BIDS, in triplicate, subject to the conditions contained herein, will be received by the U. S. Veterans' Bureau, Room 764 Arlington Building, Washington, D. C., until 11 A. M. August 20, 1929, and then publicly opened, for furnishing all labor and materials and performing all work required at U. S. VETERANS' HOSPITAL, NORTH CHICAGO, ILLINOIS, for Construction of Buildings and Utilities, including roads, walks, grading and drainage. This work will include excavating, reinforced concrete construction, hollow tile, brick work, cast stone, limestone, marble work, floor and wall tile, rubber tile and linoleum floors, iron work, steel sash, steel stairs, with slate treads; slate, metal and metal roofing, metal lathing, plastering, sound deadening, carpentry, metal weather strips, insect screens, window shades, painting, glazing, hardware, plumbing, heating, electrical work, electric elevator, and outside sewer, water, steam and electric distribution systems. **SEPARATE BIDS** will be received for General Construction, Plumbing, Heating, Electrical Work and Electric Elevator, all as set forth on bid form. Bids will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and in making awards the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. At the discretion of the Director, drawings and specifications may be obtained upon application to the Construction Division, Room 764, Arlington Building, Washington, D. C. Deposit with application of a check or postal money order for \$50.00, payable to the TREASURER OF THE UNITED STATES, is required as security for safe return of the drawings and specifications within ten days after date of opening bids. **FRANK T. HINES**, Director. July 16, 1929.

GENERAL INFORMATION

About Proposal Advertising in Manufacturers Record

PUBLICATION DAY: Thursday.

FORMS CLOSE: 10 A. M. Tuesday.

When too late to send copy by regular mail to reach us by 10 A. M. Tuesday, forward by night letter or air mail when possible.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:

Published every business day, gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened or when daily insertions are necessary to meet legal requirements.

The rate is the same for both publications—35 cents a line each insertion.

Bids close August 22, 1929.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., July 22, 1929.—**SEALED BIDS** will be opened in this office at 3 P. M. August 22, 1929, for new marquee, new roof dormers, partitions, etc., for the U. S. Postoffice and Courthouse, Greenville, S. C. Drawings and specifications may be obtained from the custodian of the building or at this office, in the discretion of the Supervising Architect. **JAS. A. WETMORE**, Acting Supervising Architect.

Bids close August 6, 1929.

SEALED BIDS, in triplicate, subject to the conditions contained herein, will be received by the U. S. Veterans' Bureau, Room 764, Arlington Building, Washington, D. C., until 11 A. M. August 6, 1929, and then publicly opened, for furnishing all labor and materials and performing all work required at U. S. VETERANS' HOSPITAL, ATLANTA, GEORGIA, for constructing one infirmary, one Recreation Building and one Officers' Duplex Quarters, including roads, walks and drainage, also demolishing two frame buildings. This work will include excavating, reinforced concrete construction, hollow tile, brick work, cast stone, limestone, marble work, floor and wall tile, rubber tile and linoleum floors, iron work, steel sash, steel stairs, with slate treads; tile, metal and built-up roofing, roof ventilators, metal lathing, plastering, carpentry, metal weather strips, insect screens, window shades, painting, glazing, hardware, plumbing, heating and ventilating plant, electrical work, vacuum cleaning system, electric elevator and dumb waiters, refrigerating plant, and outside sewer, water and electric distribution systems. **SEPARATE BIDS** will be received for General Construction and Electric Elevator and Dumb Waiters, all as set forth on bid form. Bids will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and in making awards the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. At the discretion of the Director, drawings and specifications may be obtained upon application to the Construction Division, Room 764, Arlington Building, Washington, D. C. Deposit with application of a check or postal money order for \$40.00, payable to the TREASURER OF THE UNITED STATES, is required as security for safe return of the drawings and specifications within ten days after date of opening bids. **FRANK T. HINES**, Director. July 1, 1929.

Bids close August 22, 1929.

U. S. Engineer Office, 300 Custom House, Baltimore, Md. Sealed proposals will be received here until 1 P. M. August 22, 1929, Eastern Standard Time, and then opened, for dredging approximately 2,367,000 cubic yards of material from Baltimore Harbor and channels, Md.

Bids close August 10, 1929.

U. S. ENGINEER OFFICE, Wilmington, N. C. Sealed bids, in duplicate, will be received until 12 o'clock noon, August 10, 1929, and then publicly opened for furnishing all labor and materials and performing all work for constructing and delivering afloat one 65-foot by 6-inch steel, Diesel driven tug.

Bids close August 1, 1929.

Notice of Sale of \$1,887,000.00 Bonds of Florida Inland Navigation District State of Florida

Jacksonville, Fla.

Sealed proposals will be received by the undersigned Board of Commissioners of the Florida Inland Navigation District, State of Florida, at 11 o'clock A. M. on Thursday, August 1, 1929, at City Commission Chamber, City Hall, Jacksonville, Duval County, Florida, for the following issue of bonds of said Florida Inland Navigation District, a special taxing district composed of Duval, St. Johns, Flagler, Volusia, Brevard, Indian River, St. Lucie, Martin, Palm Beach, Broward and Dade Counties in the State of Florida:

Seven Hundred Fifty Thousand Dollars (\$750,000.00) "Canal Purchase Bonds," dated September 1, A. D. 1928, due Fifty Thousand Dollars (\$50,000.00) each year 1934-1948, both inclusive. Interest payable semi-annually on September 1st and March 1st each year at four per cent per annum. Denomination \$1,000.00 each.

One Million One Hundred Thirty-seven Thousand Dollars (\$1,137,000.00) "Right of Way Purchase Bonds," dated September 1, A. D. 1928, due Seventy-six Thousand (\$76,000.00) Dollars each year, 1934-1945, both inclusive, and \$75,000.00 each year, 1946-1948, both inclusive. Interest payable semi-annually on September 1st and March 1st each year at four per cent per annum. Denomination One Thousand (\$1,000.00) Dollars each.

Bids will be received upon each of these issues separately and upon the two issues together.

Both of said issues of bonds have been validated by decree of the Circuit Court of Volusia County, Florida, and subsequently affirmed by the Supreme Court of Florida. Also these bonds were validated by Senate Bill No. 138, Legislature of State of Florida, Session 1929.

Delivery of these bonds to be made at Florida National Bank, Jacksonville, Florida.

Both principal and interest on said bonds payable at Florida National Bank, Jacksonville, Florida, or at the Guaranty Trust Company of New York City, N. Y., at the option of the holder thereof.

Each proposal must be accompanied by cash or certified check from an incorporated Bank or Trust Company in the State of Florida, payable to the order of Frank H. Owen, Esq., Treasurer of Board of Commissioners, Florida Inland Navigation District, for One per centum of the par value of the bonds bid for. The check of the successful bidder to be retained by the Commission as security for the completion of the contract of sale by the purchaser and checks of all unsuccessful bidders to be forthwith returned.

These authorized issues of bonds to be sold subject to the approving opinion of Messrs. Thompson, Wood & Hoffman of New York City, New York, to be furnished by the Commissioners. The right to reject any and all bids is hereby reserved.

It is requested that no bids be made except on the form provided by the Board of Commissioners, which form will be supplied by the undersigned upon request.

For further information address Alfred A. Green, Daytona Beach, Florida, attorney for the commission, or Frank H. Owen, Esq., 1701 Barnett National Bank Building, Jacksonville, Florida, Treasurer.

CHARLES F. BURGMAN,
Chairman Board of Commissioners.

Bids close July 30, 1929.

Virginia Highway Work

DEPARTMENT OF HIGHWAYS

Richmond, Virginia.

The Commission will receive bids on:

Project	Length	Type
S396C	7.5 Mi.	Macadam
S416AC	1 Mi.	Rock Asphalt
F585CD	0.9 Mi.	Macadam

Details obtainable on request.

Bids close August 13, 1929.

Highway, Building Repairs, Automobile

Dover, Del.

Sealed proposals will be received by the State Highway Department at its office, Dover, Delaware, until 2:00 o'clock P. M., Eastern Standard Time, August 13, 1929, and at that place and time publicly opened, for contracts involving the following approximate quantities:

CONTRACT 119
THE LEVELS ROAD—3.96 MILES
15,000 Cu. Yds. Excavation.
500 Cu. Yds. Borrow.
3,500 Cu. Yds. Cement Concrete Pavement.
30 Cu. Yds. Class "A" Concrete.
1,200 Lbs. Reinforcement.
400 Lin. Ft. 15-in. Corr. Metal Pipe.
30 Lin. Ft. 15-in. R. C. Pipe.
140 Lin. Ft. 18-in. R. C. Pipe.
30 Lin. Ft. 24-in. R. C. Pipe.
30 Lin. Ft. 36-in. R. C. Pipe.
1,000 Sq. Yds. Concrete Gutter.

CONTRACT 135
FARMINGTON TO ANDREWSVILLE
TRAFFIC BOUND ROAD—2.2 MILES
1.4 Acres Clearing.
1.4 Acres Grubbing.
8,000 Cu. Yds. Excavation.
1,000 Cu. Yds. Borrow.
3,200 Tons Crushed Stone Surface Course.

OR 2,600 Tons Crushed Slag Surface Course.
350 Lin. Ft. 15-in. Corr. Metal Pipe.
120 Lin. Ft. 18-in. Corr. Metal Pipe.
30 Lin. Ft. 24-in. Corr. Metal Pipe.

CONTRACT 136
ALTERATIONS TO GEORGETOWN
OFFICE AND SHOP

CONTRACT 137
NOXONTOWN POND ROAD—0.95 MILE
4,500 Cu. Yds. Excavation.
1,700 Cu. Yds. Cement Concrete Pavement.
5,000 Lin. Ft. Longitudinal Metal Joint.
OR 5,000 Lin. Ft. Longitudinal Joint (non-Metallic).
1,000 Lin. Ft. Premoulded Bituminous Expansion Joint.
10 Cu. Yds. Class "A" Concrete.
300 Pounds Reinforcement.
120 Lin. Ft. 15-in. Corr. Metal Pipe.
60 Lin. Ft. 18-in. Reinforced Concrete Pipe.
40 Lin. Ft. 24-in. Reinforced Concrete Pipe.
600 Sq. Yds. Class "A" Concrete Gutter.

CONTRACT "S"
FIVE PASSENGER SEDAN, WITH ALLOWANCE FOR STUDEBAKER FIVE PASSENGER SEDAN

Performance of contract shall commence within ten (10) days after execution of the contract and be completed as specified.

Monthly payments will be made for 90 per cent of the construction completed each month.

Bidders must submit proposals upon forms provided by the Department.

Each proposal must be accompanied by a surety bond, certified check or money to the amount of at least ten (10) per centum of the total amount of the proposal.

The envelope containing the proposal must be marked "Proposal for the Construction of State Highway Contract No." The contract will be awarded or rejected within twenty (20) days from the date of opening proposals.

The right is reserved to reject any or all bids.

Complete sets of plans and specifications may be obtained upon receipt of two dollars (\$2.00) for each contract, which amount will not be refunded.

STATE HIGHWAY DEPARTMENT,
Dover, Delaware.

Bids close August 2, 1929.

State Highway Construction

Nashville, Tenn.

Sealed bids will be received by the State of Tennessee, Department of Highways and Public Works, at their offices in the Memorial Building, Nashville, at 10 A. M., Friday, August 2nd, 1929, and opened publicly at that hour for the construction of the following projects:

PROJECT NO. 62, LAWRENCE COUNTY: The construction of a pavement on 12.566 miles of State Highway No. 15, between Lawrenceburg and the Wayne County line. The grading and drainage for this project has been completed under a former contract.

PROJECT NO. 99, WAYNE COUNTY: The construction of a pavement on 11.982 miles of State Highway No. 15, between Waynesboro and the Lawrence County line. The grading and drainage for this project has been completed under a former contract.

PROJECT NO. 99-B, WAYNE COUNTY: The construction of a concrete bridge over Green River near Waynesboro on 0.065 miles of State Highway No. 15.

PROJECT NO. 137-C, MARION COUNTY: The construction of a pavement on 3.5 miles of State Highway No. 27, between Tennessee-Alabama State line and Project No. 137. The grading and drainage for this project has been completed under a former contract.

PROJECT NO. 163-C, DEKALB COUNTY: The construction of a concrete and steel bridge over Caney Fork River at Sligo Ferry on 0.080 miles of State Highway No. 26.

PROJECT NO. 300-C, SHELBY COUNTY: The construction of a concrete incased I-Beam Underpass and approaches to Harnahan Bridge on 0.100 miles of State Highway No. 1.

PROJECT NO. 19-E, McNAIRY COUNTY: The construction of a pavement on 10.784 miles of State Highway No. 15, between the Hardeman County line and Selmer. The grading and drainage for this project has been completed under a former contract.

PROJECT NO. 331-D, WEAKLEY COUNTY: The grading and drainage of 17.720 miles of State Highway No. 89, between Dresden and the Kentucky State line via Palmersville. Bids for ten bridges over 20 foot span will be received separately.

PROJECT NO. 19-D, HARDEMAN COUNTY: The construction of a pavement on 11.599 miles of State Highway No. 15, between Bolivar and the McNairy County line. The grading and drainage for this project has been completed under a former contract.

PROJECT NO. 371-C, CUMBERLAND COUNTY: The grading and drainage of 8.037 miles of State Highway No. 42, between the Putnam County line and Station 431-48.

PROJECT NO. 387-B, CLAY COUNTY: The grading and drainage of 6.189 miles of State Highway No. 53, between Celina and the Kentucky State line.

PROJECTS NO. 387-C AND 12-B, CLAY COUNTY: The grading and drainage of 7.158 miles of State Highway No. 52, between Moss and Celina.

PROJECT NO. 522-C, HARDEMAN COUNTY: The grading and drainage of 13.577 miles of State Highway No. 18, between Bolivar and the Madison County line. Bids for nine bridges over twenty foot span will be received separately.

PROJECT NO. 531-A, LAWRENCE COUNTY: The construction of a pavement on 5.909 miles of State Highway No. 15, between Lawrenceburg and the Giles County line. The grading and drainage for this project has been completed under a former contract.

PROJECT NO. 531-B, GILES COUNTY: The construction of a pavement on 9.414 miles of State Highway No. 15, between the Lawrence County line and Pulaski. The grading and drainage for this project has been completed under a former contract.

Bidder's bond on the form furnished with the proposal, from a surety acceptable to this Department, or certified check made payable to this Department, in the amount of not less than five per cent (5%) of the total bid, must accompany the bid as evidence of good faith and as guarantee that if awarded the contract the bidder will execute and give bond as required.

Plans are furnished at cost, with no refund. Standard Specifications are furnished at a charge of \$1.00, with no refund. Proposals are furnished free of charge.

The right to reject any or all bids is reserved.

R. H. BAKER,
Commissioner.

Bids close August 9, 1929.

State Highway Construction

Nashville, Tenn.

Sealed bids will be received by the State of Tennessee, Department of Highways and Public Works, at their offices in the Memorial Building, Nashville, at 10 A. M. Friday, August 9th, 1929, and opened publicly at that hour, for the construction of the following projects:

PROJECT NO. 36-H, SHELBY COUNTY—The construction of a pavement on 1.520 miles of State Highway No. 1 between Scott Avenue and the city corporation line at Memphis.

PROJECT NO. 100, HAYWOOD COUNTY—The construction of a pavement on 3.926 miles of State Highway No. 1 between a point near Brownsville at station 367/31 and station 605/85.8. The grading and drainage for this project has been completed under a former contract.

PROJECT NO. 217-A, SHELBY COUNTY—The construction of a pavement on 9.191 miles of State Highway No. 4 between the Mississippi State line and Memphis. The grading and drainage for this project has been completed under a former contract.

PROJECT NO. 220-C, DICKSON COUNTY—The construction of a creosoted timber overhead and approaches over N. C. & St. L. Railway near Dickson on 0.258 miles of State Highway No. 1.

PROJECT NO. 311-B and D, HARDIN COUNTY—The construction of a pavement on 4.194 miles of State Highway No. 15 between the McNairy County line and the Tennessee River. The grading and drainage for this project has been completed under a former contract.

PROJECT NO. 314-B, WAYNE COUNTY—The grading and drainage of 6.976 miles of State Highway No. 13 between Waynesboro and Sol Hollow.

PROJECT NO. 334-E, MARSHALL COUNTY—The construction of two concrete bridges and approaches over Corn and Richland Creeks on 0.643 miles of State Highway No. 51 between Lewisburg and Pukaski.

PROJECT NO. 322-D, McMINN COUNTY—The construction of the approaches to a concrete underpass on 0.326 miles of State Highway No. 2 under Southern Railway north of Athens.

PROJECT NO. 349-E, McNAIRY AND HARDIN COUNTIES—The grading and drainage of 12.282 miles of State Highway No. 57 between Route No. 5 and Shilo Park.

PROJECT NO. 371-C, CUMBERLAND COUNTY—The grading and drainage of 9.517 miles of State Highway No. 42 between station 431/48 and Crossville.

PROJECT NO. 376-A, HENDERSON COUNTY—The construction of a pavement on 12.901 miles of State Highway No. 20 between Lexington and the Madison County line. The grading and drainage for this project has been completed under a former contract.

PROJECT NO. 384-C, DAVIDSON COUNTY—The construction of a pavement on 3.152 miles of State Highway No. 11 between the city limits of Nashville and Project No. 384-A.

PROJECT NO. 388-C, WILLIAMSON COUNTY—The construction of a Concrete Overhead and Approaches on 0.681 mile of road on State Highway No. 6 over L. & N. Railroad near Perry.

PROJECT NO. 506-C, HAMILTON COUNTY—The construction of a pavement on 0.426 mile of State Highway No. 8 between Doods Avenue, Chattanooga, and Bachman Tunnel.

PROJECT NO. 521-A, WARREN COUNTY—The construction of one concrete and one steel and concrete bridge and approaches on 0.479 mile of State Highway No. 55 between McMinnville and Coffee County line.

PROJECT NO. 525-D, HAMILTON COUNTY—The grading and drainage of 3.342 miles of State Highway No. 2 between Marion County line and Southern Underpass.

PROJECT NO. 527-A, TIPTON COUNTY—The grading and drainage of 8.196 miles of State Highway No. 59 between Mason and Covington.

PROJECT NO. 529-A, RHEA-CUMBERLAND COUNTIES—The grading and drainage of 8.413 miles of State Highway No. 68 between Grand View and Grassy Cove.

PROJECT NO. 530-A, HARDIN COUNTY—The grading and drainage of 9.609 miles of State Highway No. 69 between Savannah and station 506/50 south of Savannah. Three bridges over 20-foot span will be included with the roadway contract.

Bidder's bond on the form furnished with the proposal, from a surety acceptable to this Department, or certified check, made payable to this Department, in the amount of not less than five per cent (5%) of the total bid, must accompany the bid as evidence of good faith and as guarantee that, if awarded the contract, the bidder will execute and give bond as required.

Plans are furnished at cost, with no refund. Standard Specifications are furnished at a charge of \$1.00, with no refund. Proposals are furnished free of charge.

The right to reject any or all bids is reserved.

R. H. BAKER,
Commissioner.

Bids close August 14, 1929.

Street Paving

Trenton, Fla.

Sealed proposals on blank forms furnished by the town and addressed to "MAYOR AND COUNCIL, TRENTON, FLORIDA," will be received at the Council Chamber in Trenton, Florida, until 7 o'clock P. M. August 14, 1929, for furnishing all material, equipment and labor necessary for doing the following work:

Approximately 20,000 sq. yds. Bituminous Surface Treatment street paving, together with all appurtenances thereto.

Each bid shall be accompanied by a certified or cashier's check in the sum of not less than twenty-five hundred (\$2500.00) Dollars, made payable to W. A. Gay, Town Clerk.

Plans and specifications may be seen at the office of the Town Clerk in Trenton, Florida, and at the offices of the Engineers in Leesburg, Florida; Eustis, Florida; and Elberton, Georgia. Plans and specifications may be obtained from the Engineers upon payment of fifteen (\$15.00) dollars and specifications may be obtained from the Engineers upon payment of two dollars to partly cover the cost of reproduction. Application for plans and specifications should be made to the Leesburg, Florida, office of the Engineers.

The right is reserved to reject any or all bids and to waive any technicalities.

TOWN OF TRENTON, FLORIDA.

M. W. LAYFIELD, Mayor.
W. A. GAY, Town Clerk.

H. S. JAUDON ENGINEERING CO.,
Engineers,
Leesburg, Florida; Eustis, Florida;
Elberton, Georgia.

Bids close August 14, 1929.

Street Improvements

Gainesville, Texas.

Sealed proposals, addressed to Honorable Mayor and Council of Gainesville, Texas, will be received at the office of Hugh Turner, City Secretary, until 2 P. M. August 14, 1929, for furnishing all necessary materials, equipment and labor for constructing certain Street Improvements at location shown on map at City Hall consisting of Storm Drainage, Grading, Curb and Gutter and about 30,000 sq. yds. of pavement with appurtenances.

Bidders must inclose with bid a certified check on bank acceptable to Council for \$7,500.00, payable without recourse, to the order of the City of Gainesville, Texas, as a guarantee that the bidder will enter into the contract and execute bond and guarantee in the forms provided within ten (10) days after notice of award of contract.

Payment for work will be partly in cash and partly in pavement certificates.

The city reserves the right to reject any or all bids.

Plans and specifications are on file for inspection at City Hall, Gainesville, Texas, and at Engineers' office at Dallas, Texas, and Atlanta, Georgia. Copies may be obtained from the above places with payment of \$10.00 for plans and deposit of \$5.00 for specifications. The deposit of \$5.00 will be returned to all bona fide bidders.

CITY OF GAINESVILLE, TEXAS.

FRANK MORRIS, JR., Mayor.

HUGH TURNER, City Secretary.

THE J. B. McCRARY COMPANY,
Engineers,
Dallas, Tex.; Atlanta, Ga.

Bids close July 30, 1929.

Highway Construction

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION

NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building six sections of State Highway as follows: Baltimore County, Cont. B-118—One section of State Highway along the Belair Road from Putty Hill toward Perry Hall, a distance of 1.0 mile. (Concrete Shoulders.)

Harford County, Cont. H-74—One section of State Highway along the St. Mary's Church Road from the end of concrete at Five Forks toward the Penna. State Line, a distance of 1.0 mile. (Concrete.)

Kent County, Cont. K-42—One section of State Highway along the concrete road near Rock Hall toward Eastern Neck Island, a distance of 5.0 miles. (Concrete.)

Montgomery County, Cont. M-128—One section of State Highway along the Columbia Blvd. from near the Triangle on Georgia Ave. to Grace Church Road, a distance of 0.2 mile. (Concrete.)

Somerset County, Cont. S-34—One section of State Highway along the Westover-Fairmount Road from the end of Cont. S-30 at Manokin toward Fairmount, a distance of 1.0 mile. (Concrete.)

Somerset County, Cont. S-36—One section of State Highway from Harold P. O. toward Rehobeth, a distance of 1.0 mile. (Concrete.)

will be received by the State Roads Commission at its offices, Federal Reserve Bank Building, Calvert and Lexington Sts., Baltimore, Maryland, until 12 M. on the 30th day of July, 1929, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 17th day of July, 1929.

G. CLINTON UHL, Chairman.
L. H. STEUART, Secretary.

Bids close July 30, 1929.

Water Works Improvements**NOTICE TO CONTRACTORS**

West Greenville, S. C.

Sealed proposals for the construction of certain water works improvements for the Town of West Greenville, South Carolina, will be received by the Mayor and Council of said town at the office of the Mayor at or before two (2.00) o'clock P. M. July 30, 1929.

The work will consist of the construction of approximately 20,000 feet of 6 and 8 inch cast-iron pipe mains, 11,000 feet of galvanized iron pipe lines and 150 service connections and 2 six-inch meters.

Each bid must be accompanied by a Cashier's check for the sum of Two Thousand (\$2,000.00) Dollars, made payable to the Treasurer of the Town of West Greenville, as a bidder's guarantee.

Plans and specifications may be seen at the Mayor's office at West Greenville, South Carolina, or at the office of the Engineer. Copies will be mailed on application to the Engineer a deposit of \$5.00 being required, \$3.00 of which will be returned to those making bona fide bids and returning plans.

The town reserves the right to reject any and all bids.

South Carolina law requires that all contractors bidding on work in this state in excess of \$10,000.00 procure a bidder's license.

R. L. WELBORN, Mayor.

J. W. HILL,

Clerk and Treasurer.

THE HARWOOD BEEBE CO.,
Engineers,
Spartanburg, South Carolina.

Hot Air Furnace

Gallatin, Tenn.

Bids wanted for hot air furnace to heat Church Building approximately 36,000 cu. ft.
GALLATIN BAPTIST CHURCH.
 GEO. W. PARDUE, Treasurer.

Bids close August 14, 1929.

Sewage Disposal Plant and Appurtenances

High Point, N. C.

Sealed proposals will be received by the Mayor and City Council of the City of High Point, N. C., until 2.30 P. M. Wednesday, August 14th 1929, at the City Hall in High Point, N. C., for:

Furnishing all materials, labor, equipment, etc., for and constructing completely and placing in operation an Activated Sludge Type Sewage Disposal plant and all appurtenances to serve the West Side or Oak Hill District of the City of High Point, N. C.

The work will consist of the administrative or control house, complete with a low lift pumping station, compressor, sludge filter plant, laboratory, etc.; aeration tanks;

screen and grit chambers; cast-iron and vitrified pipe lines; valves; meters; grading of the premises; roadway paving, etc.

Proposals must be marked "PROPOSALS FOR SEWAGE DISPOSAL PLANT." All bids must be made upon blank forms provided in copies of the Proposal, Contract and Specifications, enclosed in a sealed envelope and addressed to the Mayor and City Council of the City of High Point, N. C.

Each bid must be accompanied by a certified check in the amount of five (5) per cent of the amount of the bid as evidence of good faith. Bid bonds will not be accepted.

Copies of the Plans, Specifications, Form of Proposal, Contract, etc., may be obtained upon application to the Engineers.

Bids for construction work will be considered only from contractors licensed under the laws of North Carolina who are experienced in the class of construction involved herein.

The right is reserved to reject any or all bids or to award contract or contracts which, in the opinion of the Engineers and the Mayor and Council, appear to be for the best interest of the city.

C. A. YORK, Mayor.

E. M. KNOX, City Manager.

WILLIAM C. OLSEN, INC.,

Consulting Engineers,

Raleigh, North Carolina.

Bids close August 6, 1929.

Notice to Incinerator Manufacturers and Builders

Greenwood, Miss.

The Mayor and Commissioners of the City of Greenwood, Leflore County, Mississippi, will receive sealed bids on specifications accompanying said bids for the erection of a refuse incinerator to be located in the said city. Each bid and specification accompanying it will be considered as a whole.

The said incinerator, including building and furnace, not to exceed twenty-five thousand dollars (\$25,000.00) and furnace to be capable of destroying twenty tons (20) of mixed refuse in each ten (10) hours. All materials to be of standard quality and an acceptance test of not less than three days (3) will be required before final acceptance by said city.

Said bids will be received and opened at 7.30 o'clock P. M. in the City Hall on Tuesday, August 6th, 1929. Successful bidder will be required to enter into bond for faithful performance of contract; bid to be accompanied by certified check for \$500.00.

Interested bidders may obtain further information by writing to the undersigned.

BONNER DUGGAN, City Clerk,
 Greenwood, Mississippi.

CLASSIFIED OPPORTUNITIES**MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES**

FOR SALE—Several tracts of mineral rights. Have one tract of 16,000 acres, another of 715 acres, which have been core-drilled and open pitted. Our geological report gives 240,000,000 tons of Rock Asphalt on the large tract and 4,000,000 tons on the small tract. For complete data address

W. P. HARLEY, Bowling Green, Ky.

TIMBER AND TIMBER LAND

FOR SALE—Timber and Land. We own and want to sell. Other business demands all our time. 8,000,000 ft. pine with land. This is a real bargain. If interested address Drawer 771, Rocky Mount, N. C.

OWNER OFFERING 2600 ACRES VIRGIN HARDWOOD TIMBER, LOCATED ON MACADAMIZED ROAD six miles from shipping point on main line C. & O. R. R. in Va. at sacrifice price, \$16 per acre. Proprietor Central Hotel, Point Pleasant, Penna.

FARM AND TIMBER LAND

2200 ACRES upland, 7 miles Port Gibson, Miss. (600 open, 1600 timber). Gravel road runs through. Excellent improvements; absolutely best stock raising, farming. Close estate, \$15 acre; positive gift. Barbour, Box 485, Vicksburg, Miss.

GAME PRESERVE OR STOCK FARM

FOR SALE—50,000 acres cutover Pine Timber lands in Mississippi. Good for cattle raising, general farming or large Game Preserve. Best bargain in the South. Price \$2.50 per acre. Easy terms.

JOHN J. KYSER,

50 South Cedar Street, Mobile, Ala.

FARM, FRUIT AND TRUCK LANDS**ARIZONA**

FREE Government land in Arizona, now open to homestead; Citizens of the United States entitled 640 acres each, also Arizona State school land for sale on 38 years' time. Book of information and laws on receipt of \$1 or mailed c. o. d. J. W. ANGLE, Box 603, Tucson, Ariz.

Rates, Terms and Conditions

RATES: 30 cents a line each insertion. Minimum space accepted, four lines. In estimating the cost allow six or seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made.

Rates for Special Contract:

100 lines 28c a line

300 lines 26c a line

500 lines or more 25c a line

TERMS: For transient advertising cash with order; check, postoffice or express money order or stamps accepted.

On special contract advertising, bills are rendered monthly, covering space used each month, payable within ten days.

CONDITIONS: No patent medicine, oil or mining stock advertisements or questionable or undesirable advertisements will be accepted. The assistance of our readers in excluding undesirable advertisements is requested. No display type used.

FARM, FRUIT AND TRUCK LANDS**FLORIDA****GROW TUNG OIL TREES**

A necessity which grows luxuriantly in Florida. Details, LOVELAND & TANNER, INC., Developing Realtors, Palatka.

"TWENTY ACRES AND**PLENTY"**

FREE book tells truth about Florida land; monthly payments \$1.50 an acre; no interest; no taxes; sick benefit features.

SYLVESTER E. WILSON,
 Department X,
 Orlando, Fla.

LOUISIANA

ATTENTION, FARMERS—100 choice, well improved farms, running from 30 acres to 300 acres, for sale or rent, located in richest part of Mississippi delta of Louisiana. Healthy location, good school and church facilities; 50 well satisfied white farmers already located. Greatest opportunity ever offered farmers to rent or buy homes at low prices and on easy terms. Will furnish tenants having own teams and farm machinery. Write James P. Allen, Owner, St. Joseph, La.

FARM, FRUIT AND TRUCK LAND**MISSISSIPPI**

INVESTORS' AND FARMERS' OPPORTUNITY to buy rich farm lands in Delta of Mississippi; attractive prices, reasonable terms; size tracts 680, 400, 320, 200 and 40 acres, each well located. For particulars each tract address

W. A. RITCHIE, Clarksdale, Miss.

1026 ACRES highest class, stock-raising cotton, corn; paved highway runs through. Station half mile, 20 minutes Vicksburg; 500 crops, 526 timber pasture. THE IDEAL FARM. Owner, widow; \$25 acre. IMMEDIATE SALE; terms. BARBOUR, Box 485, Vicksburg, Miss.

NORTH CAROLINA

HENDERSONVILLE, N. C.—Healthy Mountain Resort. Old Country Mansions and Mountain Lands for Sale. Write R. P. FREEZE, Real Estate.

TEXAS**160 ACRES TEXAS LAND \$5 AN ACRE**

Must sell by Sept. 1st 160 acres near Valentine, Jeff Davis Co. Close to auto road going to California, or else 160 acres near Sierra Blanca, Hudspeth Co. This will cost you \$1000.

JAMES W. KELLY,

324 N. Fourth Street, Waco, Texas.

I still have many Texas and New Mexico Ranches to sell; one large one has been sold containing 68,000 acres.

SOUTHERN HOME

FOR SALE—At a sacrifice, in North Georgia town adjacent Atlanta, 2-story brick colonial home, slate roof, large, shady lot. Apply P. O. Box 85, MARIETTA, GA.

SOUTHERN RESORT**VISIT**

MYRTLE BEACH, SOUTH CAROLINA. A delightful and attractive Mid-South Coastal Resort City in the making on Historic King's Highway.

Accessible by A. C. L. Railroad and excellent highway to water's edge.

Genial climate, pure artesian drinking water, municipal improvements.

Modern hotels, various forms of recreation, excellent golf course.

Property values enhancing; demand increasing.

For information write MYRTLE BEACH INVESTMENT CO., Myrtle Beach, S. C.

SOUTHERN PROPERTY

5000 ACRE SEA ISLAND, 25 miles from Charleston, S. C.; heavily wooded, oak, palmetto, pine, cedar, etc.; 10 miles of ocean frontage; accessible by water or by automobile by constructing 100-ft. bridge. Will make wonderful resort development, gentleman's estate or shooting preserve. Excellent fishing.

4000 ACRES heavy growth long-leaf pine timber, 12 to 24 inches in diameter, 25 miles from Charleston. Splendid partridge shooting. This property is an excellent investment for anyone wishing a winter home and good quail and turkey shooting, as timber will practically pay for the property.

GEORGE FISHBURN & COMPANY,
Charleston, S. C.

SUB-DIVISION PROPERTY

FOR SALE—In Birmingham suburbs, 3240 acres, traversed by Chicago to Gulf U. S. cement Bee Line highway. Its forests, mts., gorges, caves, waters, palisades and plateaus are unique. It has peppy, tangy, Appalachian altitude, Gulf Coast ozone, Southern sunshine, rare scenic beauty, unusual attractions and supreme quarter century health record. Get booklet. Owner, Box 24, Warrior, Ala.

BUSINESS AND INVESTMENT PROPERTIES

MUST SELL—40x60 two-story brick all-purpose building. Fine for apartment house, filling station, store. Corner lot; best town in North Carolina; 4 R. R.; 5000 people. Sacrifice price. J. H. Henley, Sanford, N. C.

BUSINESS OPPORTUNITIES

WANTED—Machinery manufacturing capital, etc.; party advancing \$10,000.00 as needed will be assured return and a continuing income from an incorporated company; interest equalling \$100,000.00. For particulars address No. 7085, care Manufacturers Record, Baltimore, Md.

PAULY HAND OPERATING MACHINES were used by the Government for making 1,000,000 thin shell tile, similar in form to fireproofing clay tile, by heating poured (cast) cement, average cost 8 cents. Our improved power operating machine reduces costs 45%. For territory and machine prices, etc., write the PAULY MFG. CO., 1333 K, Northwest, Washington, D. C.

BIG OPPORTUNITY awaits experienced granite producer in Oklahoma. Several grades of finest quality granite available in unlimited quantities and now being marketed. Architects seeking this material to use in construction work. Experienced granite man with reasonable financial backing can build profitable business. CHAMBER OF COMMERCE, Lawton, Oklahoma.

FOR SALE

City water works, ice plant and 10-room residence, located in N. C., doing a nice business. Good school and a grade college here. We have exclusive franchise on water works for 40 years. Price \$60,000.00; terms one-half cash, balance over 6 years. Reason for selling, owner has other business away. Address No. 7090, care of Manufacturers Record, Baltimore, Md.

INDUSTRIAL SURVEYS

ENGINEERING REPORTS on resources of cities and towns. Recommendations for industrial development and zoning made by specialists in locating industries.

TECHNICAL SERVICE CO.,
Woolworth Building New York City

WAREHOUSE

FOR RENT OR SALE—120,000 square feet, including warehouse and display room, well located for freight, express, parcel post. P. O. Box 803, Memphis, Tennessee.

FACTORY AND WAREHOUSE SITES

FOR SALE—Factory and Warehouse Sites, Lands for subdivisions around Mobile, Alabama. City with immediate prospects for the greatest growth and development in South. H. H. WEFEL, JR., First National Bank Bldg., Mobile, Alabama.

FARMS AND FACTORY SITES

FOR SALE—Lands suitable for industrial plant or farm, fronting Southern Ry. and Highway 69.

J. P. FLETCHER, Fletcher, N. C.

LANDS OF ALL KINDS for sale, including plantations, stock farms, improved and unimproved small farms, suburban tracts for development and factory sites. Will cooperate with purchaser in development and resale of properties. ALFRED D. ST. AMANT, Baton Rouge, La.

FACTORY SITES

INDUSTRIAL AND WATER POWER SITE on Southern Railway in North Carolina. Has over 10,000 horsepower. Very low development cost. Sale or lease. OWNER, Box 33, West Cummington, Mass.

FACTORY BUILDINGS

FACTORY AND STORAGE SPACE For Rent—Excellent galvanized warehouse, 500x100 feet, also 250x100 feet space, in fireproof building of concrete and steel, suitable for manufacturing; also ten rooms for office; steam heat, lights and water. Write FORT WORTH STEEL & MACHINERY COMPANY, P. O. Box 1038, Fort Worth, Texas.

INDUSTRIAL PLANTS

WRITE FANTUS for factories anywhere. Wonderful values in buildings or equipped plants. Valuable industrial sites free of cost to established industries. For America's best buys, address Fantus Factory Locating Service, 139 North Clark Street, Chicago.

SOUTHERN COTTON MILL

For Sale
8000 SPINDLES
GOOD WATER POWER
Address
F. C. ABBOTT & COMPANY,
201 Johnston Building, Charlotte, N. C.

FOR SALE—Fully equipped woodworking plant in South Carolina on Atlantic Coast Line, with direct rail connections with S. A. L. and Southern. Plant contains modern woods planer, moulders, resaw, rip saws, etc. Large capacity brick dry kilns, ample boiler capacity. Plenty of timber available. Priced low for quick sale. Address No. 7088, care Manufacturers Record, Baltimore.

PACKING PLANT FOR SALE

Modern slaughtering and packing plant doing one million dollar business yearly. Must sell immediately. Plant large enough to do three million dollar volume. Now supplying three states. Local market furnishes ample cattle, calves and lambs as well as forty per cent of our hog kill. Ideal location, with railroad frontage in industrial river section of Asheville, North Carolina. Decidedly the best location for packing plant in the South. Purchase can be arranged on basis of small outlay of cash and balance extended for six years; easy payments.

BAKER PACKING COMPANY,
Asheville, North Carolina.

FURNITURE FACTORY FOR SALE

LEAKSVILLE, NORTH CAROLINA
Two-story metal building, 80' x 200', and other buildings on 2½ acres land, with private railway siding; completely equipped and ready to operate; modern, up-to-date motorized machinery; sprinkler system; dry kilns; unlimited labor, reasonable wages; low electric power rate; raw material and in process of manufacture; sufficient 1,000 dining suites, go with plant. Can be bought on terms for 40 per cent actual value for quick sale. A wonderful bargain in one of best little cities in South.

E. H. WRENN, JR.,
Reidsville, N. C.

PATENTS

MANUFACTURERS—Write for our FREE Classification Sheet of inventions for sale, covering 135 main subjects, and in one or more of which you will doubtless be interested. ADAM FISHER MFG. CO., 575 Enright, St. Louis, Mo.

PATENT ATTORNEYS

FREE "PATENT PARTICULARS"

Sterling Buck, over 21 years Registered Patent Attorney. Prompt and thorough services. Suite M 629 F, Washington, D. C.

PATENTS—Booklet free. Highest references. Best results. Promptness assured. WATSON E. COLEMAN, Patent Lawyer, 724 Ninth St., N. W., Washington, D. C.

PATENTS—TRADEMARKS—COPYRIGHTS Charlotte office convenient to South. PAUL B. EATON, Registered Patent Attorney, 218 Johnson Building, Charlotte, N. C., and 314 McLachlen Bldg., Washington, D. C.

SEYMOUR & BRIGHT, Registered Patent Attorneys. Established 1876. PATENTS, TRADEMARKS, COPYRIGHTS. Prompt and thorough service. Suite 600-4, Barrister Building, Washington, D. C.

REPRESENTATIVES WANTED

SALESMEN calling on power users to sell belting as a side line, auto traveled territory preferred. Teuscher Pulley & Belting Co., 801 N. 2d St., St. Louis, Mo.

SITUATIONS WANTED

CONSTRUCTION SUPERINTENDENT—Highways, sewer and water systems. Can get results. Fifteen years' experience. Sober and reliable. References. Address No. 7087, care Manufacturers Record, Baltimore, Md.

YOUNG MARRIED MAN desires to connect with established firm in capacity of credit manager or assistant manager. Six years' successful experience in manufacturing offices. Services available on thirty days' notice to present employer. Address No. 7086, care Manufacturers Record.

MEN WANTED

DESIGNER WANTED

Experienced designer on woodworking machinery; age 30 to 40 preferred. Give full details of experience in first letter. Address No. 7089, care of Manufacturers Record.

WANTED

HIGH-CLASS SALES EXECUTIVE

to act as General Sales Manager of National Sales Organization for high-grade machinery. Must possess sales promotion ideas, be a good executive, capable of handling men to get the best out of them. Ability to build up and develop individual men important. Sales handled through branch offices and field men. Age, 30 to 40 preferred. Give experience and personal description in first letter. Address No. 7081, care of Manufacturers Record, Baltimore, Md.

IF YOU ARE OPEN to overtures for new connection and qualified for a salary between \$2500 and \$25,000, your response to this announcement is invited. The undersigned provides a thoroughly organized service, of recognized standards and reputation, through which preliminaries are negotiated confidentially for positions of the caliber indicated. The procedure is individualized to each client's personal requirements, your identity covered and present position protected. Established nineteen years. Send only name and address for details.

R. W. BIXBY, INC.,
103 Downtown Bldg. Buffalo, New York

MACHINERY AND SUPPLIES

FOR SALE—Type O Thew electric shovel. Has dug less than 100,000 yards of earth. Machinery and motors in good condition. Nash Brick & Coal Co., Rocky Mount, N. C.